

FOUNDATION PROGRAM (B.SC. (AG.ENV.SC.))

Offered by: Agricultural & Env.Sc.-Dean (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 45

Program Description

The B.Sc.(Ag.Env.Sc.); Foundation Program is designed to provide core science prerequisites for those entering university for the first time from a high school system (outside of the Quebec CEGEP system).

All majors except Agricultural Economics: Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
AEBI 120	General Biology.	3
AECH 110	General Chemistry 1.	4
AECH 111	General Chemistry 2.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AEPH 112	Introductory Physics 1.	4
AEPH 114	Introductory Physics 2.	4

Elective Course (3 credits)

Course selection is done in consultation with the program advisor.

Agricultural Economics Major: Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
AEBI 120	General Biology.	3
AECH 110	General Chemistry 1.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AGEC 200	Principles of Microeconomics. ²	3
BREE 103	Linear Algebra.	3

Complementary Courses (3-6 credits)

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
AGEC 201	Principles of Macroeconomics.	3
AGEC 231	Economic Systems of Agriculture.	3

Course selection is done in consultation with the program advisor.

Elective Courses (3 or 6 credits)

Course selection is done in consultation with the program advisor.

Foundation Program (B.Eng. (Bioresource)) (30 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 30

Program Description

The B.Eng.(Bioresource); Foundation Program is designed to provide core science prerequisites for those entering university for the first time from a high school system (outside of the Quebec CEGEP system).

Required Courses (30 credits)

Course	Title	Credits
AEBI 120	General Biology.	3
AECH 110	General Chemistry 1.	4
AECH 111	General Chemistry 2.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AEPH 113	Physics 1.	4
AEPH 115	Physics 2.	4
BREE 103	Linear Algebra.	3

Foundation Program (B.Sc. (F.Sc.)) (30 credits)

Offered by: Food Science & Agr. Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 30

Program Description

The B.Sc.(F.Sc.); Foundation Program is designed to provide core science prerequisites for those entering university for the first time from a high school system (outside of the Quebec CEGEP system).

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
AEBI 120	General Biology.	3
AEBI 122	Cell Biology.	3
AECH 110	General Chemistry 1.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AEPH 112	Introductory Physics 1.	4
AEPH 114	Introductory Physics 2.	4
FDSC 230	Organic Chemistry.	4

Foundation Program (B.Sc. (Nutr.Sc.)) (30 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 30

Program Description

The B.Sc.(Nutr.Sc.) Foundation Program is designed to provide the required science entrance prerequisites for students entering university for the first time from a high school system (outside of the Quebec CEGEP system).

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
AEBI 120	General Biology.	3
AEBI 122	Cell Biology.	3
AECH 110	General Chemistry 1.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AEPH 112	Introductory Physics 1.	4
AEPH 114	Introductory Physics 2.	4
FDSC 230	Organic Chemistry.	4

Foundation Program Concurrent (B.Sc. (F.Sc.)) and (B.Sc. (Nutr.Sc.)) (30 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 30

Program Description

The Concurrent B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.); Foundation Program is designed to provide core science prerequisites for those entering university for the first time from a high school system (outside of the Quebec CEGEP system).

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (30 credits)

Course	Title	Credits
AEBI 120	General Biology.	3
AEBI 122	Cell Biology.	3
AECH 110	General Chemistry 1.	4
AEMA 101	Calculus 1 with Precalculus.	4
AEMA 102	Calculus 2.	4
AEPH 112	Introductory Physics 1.	4

AEPH 114	Introductory Physics 2.	4
FDSC 230	Organic Chemistry.	4

Animal Biology Minor (B.Eng.) (24 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 24

Program Description

The Minor Animal Biology is intended for students who wish to further their studies in the basic biology of large mammals and birds. Successful completion of the program should provide students with a sound background in the field of biomedical studies and the use of animal models. It should also qualify students to apply to most veterinary colleges in North America, to study in a variety of postgraduate biology programs, and to work in many laboratory settings.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Biology.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 420	Animal Biotechnology.	3
PARA 438	Immunology.	3

Complementary Courses (9 credits)

9 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 251	Comparative Anatomy.	3
ANSC 326	Fundamentals of Population Genetics.	3
ANSC 400	Eukaryotic Cells and Viruses.	3
ANSC 424	Metabolic Endocrinology.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 555	The Use and Welfare of Animals.	3
ANSC 560	Biology of Lactation.	3
LSCI 451	Research Project 1.	3

Animal Health and Disease Minor (B.Eng.) (24 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 24

Program Description

The Minor in Animal Health and Disease is offered to students wishing to understand general animal physiology and function, the susceptibility of animals to various diseases, methods for limiting and controlling potential outbreaks, and the resulting implications for the animal, the consumer, and the environment. It is an ideal choice for students who are interested in the care of animals, or in working in laboratories where diseases are being researched. It would also be useful to students who wish to apply to most veterinary colleges in North America.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Health and Disease.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 350	Food-Borne Pathogens.	3
ANSC 424	Metabolic Endocrinology.	3
MICR 341	Mechanisms of Pathogenicity.	3
PARA 438	Immunology.	3

Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 251	Comparative Anatomy.	3
ANSC 303	Farm Animal Internship	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 555	The Use and Welfare of Animals.	3

Livestock Specialization (B.Sc.(Ag.Env.Sc.)) (18 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 18

Program Description

The Specialization in Livestock focuses on essentials of livestock production as it relates to providing food and other resources to consumers. The key components of livestock management (reproductive physiology, breeding and genomics, nutrition, and welfare with hands-on farm experience), including precision animal agriculture and highlights provincial and national livestock industries in a global context. This Specialization may be taken with the Major in Sustainable Agricultural Systems with connections to Crops, Vegetables, and Global Food Security, as well as an opportunity to take dedicated agronomic content leading to an additional Specialization in Professional Agrology, thereby meeting the eligibility requirements for the Ordre des agronomes du Québec.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ANSC 301	Principles of Animal Breeding.	3
ANSC 303	Farm Animal Internship	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 458	Advanced Livestock Management	3
ANSC 555	The Use and Welfare of Animals.	3

Bioresource Engineering Honours (B.Eng. (Bioresource)) (113 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 113

Program Description

The B.Eng.(Bioresource); Honours in Bioresource Engineering program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fibre, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions.

Required Courses (68 credits)

Expand allContract all

Course	Title	Credits
AEMA 202	Intermediate Calculus.	3
AEMA 305	Differential Equations.	3
BREE 205	Engineering Design 1.	3
BREE 210	Mechanical Analysis and Design.	3
BREE 216	Bioresource Engineering Materials.	3
BREE 252	Computing for Engineers.	3
BREE 301	Biothermodynamics.	3
BREE 305	Fluid Mechanics.	3
BREE 312	Electric Circuits and Machines.	3
BREE 319	Engineering Mathematics.	3
BREE 327	Bio-Environmental Engineering.	3
BREE 341	Mechanics of Materials.	3
BREE 415	Design of Machines and Structural Elements .	3
BREE 420	Engineering for Sustainability.	3
BREE 451	Undergraduate Seminar 1 - Oral Presentation.	1
BREE 452	Undergraduate Seminar 2 Poster Presentation.	1
BREE 453	Undergraduate Seminar 3 - Scientific Writing.	1
BREE 485	Senior Undergraduate Seminar	1
BREE 490	Engineering Design 2.	3
BREE 495	Engineering Design 3.	3
BREE 504	Instrumentation and Control.	3
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
FAES 405	Honours Project 1.	3
FAES 406	Honours Project 2.	3
MECH 289	Design Graphics.	3

Complementary Courses (45 credits)

Set A

3 credits selected from:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
CIVE 302	Probabilistic Systems.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
CHEE 315	Heat and Mass Transfer.	3
MECH 346	Heat Transfer.	3

Set B - Natural Sciences and Mathematics

3 credits selected from:

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
ENVB 210	The Biophysical Environment.	3
ENVB 305	Population and Community Ecology.	3
LSCI 202	Molecular Cell Biology.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
MICR 331	Microbial Ecology.	3

Plus 6 credits chosen in consultation with the Academic Adviser.

Set C - Social Sciences

Minimum of 3 credits selected from:

Expand allContract all

Course	Title	Credits
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SOCI 235	Technology and Society.	3

Note: ENVR courses have limited enrolment.

Plus 6 credits of social sciences, management studies, humanities, or law courses at the U1 undergraduate level or higher with approval of the Academic Adviser. Note: these 6 credits may include one 3-credit language course other than the student's normal spoken languages.

Set D - Engineering

21 credits from the following list, with the option (and approval of the Academic Adviser) of taking a maximum of 6 credits from other courses offered in the Faculty of Engineering:

Expand allContract all

Course	Title	Credits
BREE 214	Geomatics.	3
BREE 217	Hydrology and Water Resources.	3
BREE 314	Agri-Food Buildings.	3
BREE 322	Management of Organic Residue	3
BREE 325	Food Process Engineering.	3
BREE 329	Precision Agriculture.	3
BREE 403	Biological Material Properties.	3
BREE 412	Machinery Systems Engineering.	3
BREE 416	Engineering for Land Development.	3
BREE 419	Structural Design.	3
BREE 497	Bioresource Engineering Project.	3
BREE 501	Simulation and Modelling.	3

BREE 502	Drainage/Irrigation Engineering.	3
BREE 505	Life Cycle Assessment for Sustainable Agrifood Systems.	3
BREE 509	Hydrologic Systems and Modelling.	3
BREE 510	Watershed Systems Management.	3
BREE 515	Course BREE 515 Not Found	3
BREE 518	Ecological Engineering.	3
BREE 519	Advanced Food Engineering.	3
BREE 520	Food, Fibre and Fuel Elements.	3
BREE 522	Bio-Based Polymers.	3
BREE 529	GIS for Natural Resource Management.	3
BREE 530	Fermentation Engineering.	3
BREE 531	Post-Harvest Drying.	3
BREE 532	Post-Harvest Storage.	3
BREE 533	Water Quality Management.	3
BREE 535	Food Safety Engineering.	3

Bioresource Engineering Major (B.Eng.(Bioresource)) (113 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 113

Program Description

The B.Eng.(Bioresource); Major in Bioresource Engineering program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fiber, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions.

Required Courses (62 credits)

Course	Title	Credits
AEMA 202	Intermediate Calculus.	3
AEMA 305	Differential Equations.	3
BREE 205	Engineering Design 1.	3
BREE 210	Mechanical Analysis and Design.	3
BREE 216	Bioresource Engineering Materials.	3
BREE 252	Computing for Engineers.	3
BREE 301	Biothermodynamics.	3
BREE 305	Fluid Mechanics.	3
BREE 312	Electric Circuits and Machines.	3
BREE 319	Engineering Mathematics.	3
BREE 327	Bio-Environmental Engineering.	3

			Course	Title	Credits
BREE 341	Mechanics of Materials.	3	ENVR 201	Society, Environment and Sustainability.	3
BREE 415	Design of Machines and Structural Elements .	3	ENVR 203	Knowledge, Ethics and Environment.	3
BREE 420	Engineering for Sustainability.	3	SEAD 530	Economics for Sustainability in Engineering and Design.	3
BREE 451	Undergraduate Seminar 1 - Oral Presentation.	1	SOCI 235	Technology and Society.	3
BREE 452	Undergraduate Seminar 2 Poster Presentation.	1			
BREE 453	Undergraduate Seminar 3 - Scientific Writing.	1			
BREE 485	Senior Undergraduate Seminar	1		Note: ENVR courses have limited enrolment.	
BREE 490	Engineering Design 2.	3			
BREE 495	Engineering Design 3.	3		Plus 6 credits of Social Sciences, Management Studies, Humanities, or Law courses at the U1 undergraduate level or higher with approval of the Academic Adviser.	
BREE 504	Instrumentation and Control.	3			
FACC 250	Responsibilities of the Professional Engineer.	0			
FACC 300	Engineering Economy.	3			
FACC 400	Engineering Professional Practice.	1			
MECH 289	Design Graphics.	3			

Complementary Courses (45 credits)

Set A

3 credits selected from:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
CIVE 302	Probabilistic Systems.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
CHEE 315	Heat and Mass Transfer.	3
MECH 346	Heat Transfer.	3

Set B - Natural Sciences and Mathematics

Minimum of 3 credits selected from:

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
ENVB 210	The Biophysical Environment.	3
ENVB 305	Population and Community Ecology.	3
LSCI 202	Molecular Cell Biology.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
MICR 331	Microbial Ecology.	3

With 6 credits chosen in consultation with the Academic Adviser.

Set C - Social Sciences

Minimum of 3 credits selected from:

Expand allContract all

			Course	Title	Credits
			ENVR 201	Society, Environment and Sustainability.	3
			ENVR 203	Knowledge, Ethics and Environment.	3
			SEAD 530	Economics for Sustainability in Engineering and Design.	3
			SOCI 235	Technology and Society.	3
				Note: ENVR courses have limited enrolment.	
				Plus 6 credits of Social Sciences, Management Studies, Humanities, or Law courses at the U1 undergraduate level or higher with approval of the Academic Adviser.	
				Note: these 6 credits may include one 3-credit language course other than the student's normal spoken languages.	
				Set D - Engineering	
				27 credits from the following list, with the option (and approval of the Academic Adviser) of taking a maximum of 6 credits from other courses offered in the Faculty of Engineering:	
				Expand allContract all	
				Course	Title
				BREE 214	Geomatics.
				BREE 217	Hydrology and Water Resources.
				BREE 314	Agri-Food Buildings.
				BREE 322	Management of Organic Residue
				BREE 325	Food Process Engineering.
				BREE 329	Precision Agriculture.
				BREE 403	Biological Material Properties.
				BREE 412	Machinery Systems Engineering.
				BREE 416	Engineering for Land Development.
				BREE 419	Structural Design.
				BREE 497	Bioresource Engineering Project.
				BREE 501	Simulation and Modelling.
				BREE 502	Drainage/Irrigation Engineering.
				BREE 505	Life Cycle Assessment for Sustainable Agrifood Systems .
				BREE 509	Hydrologic Systems and Modelling.
				BREE 510	Watershed Systems Management.
				BREE 518	Ecological Engineering.
				BREE 519	Advanced Food Engineering.
				BREE 520	Food, Fibre and Fuel Elements.
				BREE 522	Bio-Based Polymers.
				BREE 529	GIS for Natural Resource Management.
				BREE 530	Fermentation Engineering.
				BREE 531	Post-Harvest Drying.
				BREE 532	Post-Harvest Storage.
				BREE 533	Water Quality Management.
				BREE 535	Food Safety Engineering.

Bioresource Engineering - Professional Agrology (B.Eng. (Bioresource)) (113 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Engineering (Bioresource)

Program credit weight: 113

Program Description

The B.Eng.(Bioresource); Major in Bioresource Engineering; Professional Agrology program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fibre, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions. This program qualifies graduates to apply for registration in the Ordre des agronomes du Québec and similar licensing bodies in other provinces in addition to the professional engineer licensing.

Required Courses (65 credits)

Expand allContract all		
Course	Title	Credits
AEMA 202	Intermediate Calculus.	3
AEMA 305	Differential Equations.	3
AGRI 330	Agricultural Legislation.	1
AGRI 430	Professional Practice in Agrology.	2
BREE 205	Engineering Design 1.	3
BREE 210	Mechanical Analysis and Design.	3
BREE 216	Bioresource Engineering Materials.	3
BREE 252	Computing for Engineers.	3
BREE 301	Biothermodynamics.	3
BREE 305	Fluid Mechanics.	3
BREE 312	Electric Circuits and Machines.	3
BREE 319	Engineering Mathematics.	3
BREE 327	Bio-Environmental Engineering.	3
BREE 341	Mechanics of Materials.	3
BREE 415	Design of Machines and Structural Elements .	3
BREE 420	Engineering for Sustainability.	3
BREE 451	Undergraduate Seminar 1 - Oral Presentation.	1
BREE 452	Undergraduate Seminar 2 Poster Presentation.	1
BREE 453	Undergraduate Seminar 3 - Scientific Writing.	1
BREE 485	Senior Undergraduate Seminar	1
BREE 490	Engineering Design 2.	3
BREE 495	Engineering Design 3.	3
BREE 504	Instrumentation and Control.	3
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3

FACC 400	Engineering Professional Practice.	1
MECH 289	Design Graphics.	3

Complementary Courses (48 credits)

48 credits of the complementary courses selected as follows:

Set A

3 credits selected from:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
CIVE 302	Probabilistic Systems.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
CHEE 315	Heat and Mass Transfer.	3
MECH 346	Heat Transfer.	3

Set B - Natural Sciences

Group 1 - Biology

6 credits selected from:

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
LSCI 202	Molecular Cell Biology.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3

Group 2 - Agricultural Sciences

6 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 250	Introduction to Livestock Management	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 458	Advanced Livestock Management	3
PLNT 302	Forage Crops and Pastures.	3
PLNT 200	Introduction to Crop Science	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 312	Urban Horticulture.	3
PLNT 322	Greenhouse Management.	3
PLNT 430	Pesticides in Agriculture.	3

Set C - Social Sciences

3 credits selected from:

Expand allContract all

Course	Title	Credits				Credits
ENVR 201	Society, Environment and Sustainability.	3	BREE 505	Life Cycle Assessment for Sustainable Agrifood Systems .		3
ENVR 203	Knowledge, Ethics and Environment.	3	BREE 522	Bio-Based Polymers.		3
SEAD 530	Economics for Sustainability in Engineering and Design.	3				
SOCI 235	Technology and Society.	3				

Note: ENVR courses have limited enrolment.

Set D - Engineering

27 credits from Group 1, Group 2, and Group 3.

Minimum of 6 credits from each of Group 1, Group 2 and Group 3 with the option (and approval of the Academic Adviser) of taking 6 credits from courses offered in the Faculty of Engineering.

Group 1 - Soil and Water

Expand allContract all

Course	Title	Credits
BREE 214	Geomatics.	3
BREE 217	Hydrology and Water Resources.	3
BREE 322	Management of Organic Residue	3
BREE 329	Precision Agriculture.	3
BREE 416	Engineering for Land Development.	3
BREE 502	Drainage/Irrigation Engineering.	3
BREE 509	Hydrologic Systems and Modelling.	3
BREE 510	Watershed Systems Management.	3
BREE 518	Ecological Engineering.	3
BREE 529	GIS for Natural Resource Management.	3
BREE 533	Water Quality Management.	3

Group 2 - Food Processing

Expand allContract all

Course	Title	Credits
BREE 325	Food Process Engineering.	3
BREE 519	Advanced Food Engineering.	3
BREE 520	Food, Fibre and Fuel Elements.	3
BREE 530	Fermentation Engineering.	3
BREE 531	Post-Harvest Drying.	3
BREE 532	Post-Harvest Storage.	3
BREE 535	Food Safety Engineering.	3

Group 3 - Other Engineering

Expand allContract all

Course	Title	Credits
BREE 314	Agri-Food Buildings.	3
BREE 403	Biological Material Properties.	3
BREE 412	Machinery Systems Engineering.	3
BREE 419	Structural Design.	3
BREE 497	Bioresource Engineering Project.	3
BREE 501	Simulation and Modelling.	3

Farm Management Technology (Diploma of College Studies)

Offered by: Agricultural & Env.Sc.-Dean

Degree: Farm Management Technology

Program Description

This three-year academic and practical program is offered on the Macdonald campus and taught by the staff of the Faculty of Agricultural and Environmental Sciences of McGill University. The program is funded by the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec and authorized by the Ministère de l'Éducation, Enseignement supérieur, et Recherche (MEESR).

The educational goals of the program are:

1. to make our graduates competent in the exercise of their profession;
2. to help the student's integration into professional life;
3. to foster professional mobility;
4. to foster a need for continual development of professional knowledge.

Program Overview

Six academic terms are spent on the Macdonald Campus studying a sequence of courses in soil, plant science, animal science, engineering, and management. The first summer of the program includes a 13-week internship on an agricultural enterprise other than the home farm, or an agricultural business, where the student learns the many skills related to modern commercial agriculture. Students prepare for their Agricultural Internship during both academic semesters of Year 1 through two Stage courses.

During the second summer, students are registered in Enterprise Management 1. During this period, the students will be responsible for data collection to be used in the next two Enterprise Management courses and the Nutrient Management Plan course when they return to the campus for the Fall semester. These internships will enable the students to relate their academic work to the reality of farming and of the agri-food sector.

Finally, courses in English, Français, Humanities, Physical Education, and two complementary subjects taken during the program will entitle the student to receive a Diploma of College Studies (DEC) from the MEESR.

Program Outline

Fall 1

Expand allContract all

Course	Title	Credits
FMT4 001	Fall Stage (152-VSA-MC).	1.33
FMT4 002	Soil Tillage (152-VSB-MC).	1.67

FMT4 003	Information Management (152-VSC-MC).	1.33
FMT4 004	Animal Physiology and Anatomy (152-VSD-MC).	1.33
FMT4 005	Introduction to Plant Science (152-VSE-MC).	2.33
FMT4 006	Pesticides and the Environment (152-VSF-MC).	1.33
FMTP 080	English Upgrading.	2
FMTP 090	Physical Activity and Health (109-101-MQ).	1

Winter 1

Expand allContract all

Course	Title	Credits
FMT4 007	Health and Safety (152-VSG-MC).	2
FMT4 008	Animal Genetics and Nutrition (152-VSH-MC).	2.33
FMT4 009	Soil Fertility (152-VSJ-MC).	2
FMT4 010	Winter Stage (152-VSK-MC).	1.33
FMT4 011	Farm Accounting (152-VSL-MC).	2
FMT4 012	Machinery Maintenance (152-VSM-MC).	1.67
FMTP 077	Introduction to College English.	2.67

Summer 1

Expand allContract all

Course	Title	Credits
FMT4 013	Agricultural Internship (152-VSN-MC).	2

Fall 2

Two courses selected from the Elective Production course list below.

Expand allContract all

Course	Title	Credits
FMT4 014	Marketing Strategies (152-VSP-MC).	2
FMT4 015	Forest Management (152-VSQ-MC).	1.33
FMTP 075	Langue française et communication (602-101-03).	2
FMTP 082	Literary Genres (603-102-04).	2.33
FMTP 085	Humanities 1: Knowledge (345-103-04).	2.33

Winter 2

Two courses selected from the Elective Production course list below.

Expand allContract all

Course	Title	Credits
FMT4 016	Budgeting and Administration (152-VSR-MC).	2
FMT4 017	Agricultural Systems (152-VST-MC).	1.33
FMTP 083	Literary Themes (603-103-04).	2.33
FMTP 091	Physical Activity and Effectiveness (109-102-MQ).	1
FMTP 098	Français agricole (602-VSG-MC).	2

Summer 2

Expand allContract all

Course	Title	Credits
FMT4 018	Enterprise Management 1 (152-VSU-MC).	2.33

Fall 3

Expand allContract all

Course	Title	Credits
FMT4 019	Nutrient Management Plan (152-VSV-MC).	2
FMT4 020	Conservation of Soil and Water (152-VSW-MC).	2
FMT4 021	Enterprise Management 2 (152-VSX-MC).	2.67
FMT4 022	Equipment Management (152-VSY-MC).	1.67
FMTP 078	FMT English (603-VSB-MC).	2
FMTP 086	Humanities 2: World Views (345-102-03).	2
FMTP 097	Landscape Design (504-VSG-MC).	2

Winter 3

Expand allContract all

Course	Title	Credits
FMT4 023	Building Management (152-VSZ-MC).	1.33
FMT4 024	Farm Building Development (152-VTA-MC).	1.67
FMT4 025	Enterprise Management 3 (152-VTB-MC).	2.33
FMT4 026	Human Resources (152-VTC-MC).	1.67
FMT4 027	Precision Agriculture (152-VTD-MC).	1.33
FMTP 087	Humanities 3:Env.& Org. Issues (345-VSH-MC).	2
FMTP 092	Physical Activity and Autonomy (109-103-MQ).	1

Elective Production Courses

We offer four production courses in the area of Animal Science and four production courses in the area of Plant Science. Students must take a minimum of two courses in each category for a total of four courses. Students could elect to take more than four courses if they wish, after a discussion with their academic adviser. They must take a minimum of two courses per semester.

Animal Science Category

Expand allContract all

Course	Title	Credits
FMT4 028	Dairy Replacement Management (152-VTE-MC).	2.67
FMT4 029	Dairy Performance Management (152-VTF-MC).	2.67
FMT4 030	Swine and Poultry Management (152-VTG-MC).	2.67
FMT4 031	Beef and Sheep Management (152-VTH-MC).	2.67

Plant Science Category

Expand allContract all

Course	Title	Credits
FMT4 033	Vegetable and Fruit Crops (152-VTK-MC).	2.67
FMT4 034	Greenhouse Crop Production (152-VTL-MC).	2.67
FMT4 035	Field Crop Management 1 (152-VTM-MC).	2.67
FMT4 036	Field Crop Management 2 (152-VTN-MC).	2.67

Complementary Courses

Students must take two complementary courses to meet the program requirements. The program offers the following.

¹

After consultation with their academic adviser, students can substitute complementary courses taken at another collegial

institution. This includes science courses which are required for further studies in a degree program. The cost associated with courses taken elsewhere must be assumed by the students.

Expand allContract all

Course	Title	Credits
FMTP 074	Complementary Course 2.	2
FMTP 097	Landscape Design (504-VSG-MC).	2

Comprehensive Assessment

The objective of this examination is to ensure that students have attained the objectives and standards for each competency in the program. Successful completion of the Comprehensive Assessment is mandatory to obtain the DEC.

The passing grade is 60%. The mark indicating that the student has successfully completed the Comprehensive Assessment will appear on the student's transcript.

English Exit Examination

All students who wish to graduate and obtain the DEC must pass the English Exit Examination that is prepared and corrected by the MEESR. Students must take this examination on the dates selected by the MEESR.

Food Science - Food Chemistry Option (B.Sc.(F.Sc.)) (90 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 90

Program Description

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Chemistry Option can also qualify for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ). Food Chemistry Option is completed to 90 credits with free elective courses.

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (54 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 Organic Chemistry must be completed as a replacement.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
AGRI 510	Professional Practice.	3
BREE 324	Elements of Food Engineering.	3
FDSC 200	Introduction to Food Science.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 400	Food Packaging.	3
FDSC 442	Food Microbiology.	3
FDSC 495D1	Food Science Seminar.	1.5
FDSC 495D2	Food Science Seminar.	1.5
FDSC 525	Food Quality Assurance.	3
FDSC 540	Sensory Evaluation of Foods.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3

Additional Required Courses - Food Chemistry Option (30 credits)

Note: Graduates of this program are qualified for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ).

Expand allContract all

Course	Title	Credits	
FDSC 233	Physical Chemistry.	3	A brief description of the research activities involved will be documented and signed by the Program Director of the student's major, the supervisor of the research project, and the student.
FDSC 305	Food Chemistry 2.	3	
FDSC 315	Separation Techniques in Food Analysis 1.	3	The concurrent program B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) is designed to give motivated students the opportunity to combine the two fields. The two disciplines complement each other with Food Science providing the scientific foundation in the fundamentals of food science and its application in the food system, while Nutritional Sciences brings the fundamental knowledge in the nutritional aspects of food and metabolism. The program aims to train students with the fundamental knowledge in both disciplines to promote the development of healthy food products for human consumption. The overall program is structured and closely integrated to satisfy the academic requirements of both degrees as well as the professional training or exposure to industry.
FDSC 334	Analysis of Food Toxins and Toxicants.	3	
FDSC 405	Food Product Development.	3	
FDSC 490	Research Project 1.	3	
FDSC 491	Research Project 2.	3	
FDSC 515	Enzymology.	3	
FDSC 516	Flavour Chemistry.	3	
FDSC 520	Biophysical Chemistry of Food.	3	

Electives (6 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

Food Science/Nutritional Science Honours (Concurrent) (B.Sc.(F.Sc.)) and (B.Sc.(Nutr.Sc.)) (122 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 122

Program Description

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U3 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours. Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (80 credits)

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 305	Food Chemistry 2.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 334	Analysis of Food Toxins and Toxicants.	3
FDSC 400	Food Packaging.	3

FDSC 442	Food Microbiology.	3	AGEC 442	Economics of International Agricultural Development.	3
FDSC 497	Professional Seminar: Food.	1.5	AGEC 450	Agribusiness Management.	3
FDSC 525	Food Quality Assurance.	3			
LSCI 211	Biochemistry 1.	3			
LSCI 230	Introductory Microbiology.	3			
NUTR 207	Nutrition and Health.	3			
NUTR 214	Food Fundamentals.	4			
NUTR 307	Metabolism and Human Nutrition.	3			
NUTR 337	Nutrition Through Life.	3			
NUTR 344	Clinical Nutrition 1.	4			
NUTR 497	Professional Seminar: Nutrition.	1.5			
NUTR 512	Herbs, Foods and Phytochemicals.	3			

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major, chosen in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 401	Honours Research Project 1.	6
FAES 402	Honours Research Project 2.	6

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 405	Honours Project 1.	3
FAES 406	Honours Project 2.	3

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits selected from:

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
AGEC 330	Agriculture and Food Markets.	3
AGEC 430	Agriculture, Food and Resource Policy.	3

At least 9 credits selected from:

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment.	3
NUTR 301	Psychology.	3
NUTR 322	Applied Sciences Communication.	3
NUTR 342	Applied Human Resources.	3

12 credits selected from:

Expand allContract all

Course	Title	Credits
FDSC 480	Food Industry Internship.	12
NUTR 480	Nutrition Industry Internship.	12

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

Food Science/Nutritional Science Major (Concurrent) (B.Sc.(F.Sc.)) and (B.Sc.(Nutr.Sc.)) (122 credits)

Offered by: Food Science & Agr. Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 122

Program Description

The concurrent program B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) is designed to give motivated students the opportunity to combine the two fields. The two disciplines complement each other with Food Science providing the scientific foundation in the fundamentals of food science and its application in the food system, while Nutritional Sciences brings the fundamental knowledge in the nutritional aspects of food and metabolism. The program aims to train students with the fundamental knowledge in both disciplines to promote the development of healthy food products for human consumption. The overall program is structured and closely integrated to satisfy the academic requirements of both degrees as well as the professional training or exposure to industry.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (80 credits)

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 305	Food Chemistry 2.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 334	Analysis of Food Toxins and Toxicants.	3
FDSC 400	Food Packaging.	3
FDSC 442	Food Microbiology.	3
FDSC 497	Professional Seminar: Food.	1.5
FDSC 525	Food Quality Assurance.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 214	Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 337	Nutrition Through Life.	3
NUTR 344	Clinical Nutrition 1.	4
NUTR 497	Professional Seminar: Nutrition.	1.5
NUTR 512	Herbs, Foods and Phytochemicals.	3

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits selected from:

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
AGEC 330	Agriculture and Food Markets.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGEC 450	Agribusiness Management.	3
NUTR 342	Applied Human Resources.	3

At least 9 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 551	Carbohydrate and Lipid Metabolism.	3
ANSC 552	Protein Metabolism and Nutrition.	3
ENVR 203	Knowledge, Ethics and Environment.	3
FDSC 516	Flavour Chemistry.	3
FDSC 536	Food Traceability.	3
FDSC 537	Nutraceutical Chemistry.	3
NUTR 322	Applied Sciences Communication.	3
NUTR 341	Global Food Security.	3
NUTR 503	Nutrition and Exercise.	3

12 credits selected from:

Expand allContract all

Course	Title	Credits
FDSC 480	Food Industry Internship.	12
NUTR 480	Nutrition Industry Internship.	12

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

* Not all courses may be offered every year, please consult with your adviser when planning your program.

Food Science - Food Science Option (B.Sc.(F.Sc.)) (90 credits)

Offered by: Food Science & Agr. Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 90

Program Description

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as

scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Science Option can also qualify for recognition by the Institute of Food Technologists (IFT).

The Food Science Option is completed to 90 credits with free elective courses.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (51 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 Organic Chemistry must be completed as a replacement.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
AGRI 510	Professional Practice.	3
BREE 324	Elements of Food Engineering.	3
FDSC 200	Introduction to Food Science.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 400	Food Packaging.	3
FDSC 442	Food Microbiology.	3
FDSC 495D1	Food Science Seminar.	1.5
FDSC 495D2	Food Science Seminar.	1.5
FDSC 525	Food Quality Assurance.	3

LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3

Additional Required Courses - Food Science Option (21 credits)

Expand allContract all

Course	Title	Credits
FDSC 233	Physical Chemistry.	3
FDSC 305	Food Chemistry 2.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 334	Analysis of Food Toxins and Toxicants.	3
FDSC 405	Food Product Development.	3
FDSC 516	Flavour Chemistry.	3
FDSC 540	Sensory Evaluation of Foods.	3

Elective Courses (18 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

Food Science - Food Science Option Honours (B.Sc.(F.Sc.)) (90 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Food Science)

Program credit weight: 90

Program Description

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours. Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the research activities involved will be documented and signed by the Program Director of the student's major, the supervisor of the research project, and the student.

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Science Option can also qualify for recognition by the Institute of Food Technologists (IFT).

The Food Science Option is completed after 90 credits with free elective courses.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (51 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 Organic Chemistry must be completed as a replacement.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
AGRI 510	Professional Practice.	3
BREE 324	Elements of Food Engineering.	3
FDSC 200	Introduction to Food Science.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3

FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 400	Food Packaging.	3
FDSC 442	Food Microbiology.	3
FDSC 495D1	Food Science Seminar.	1.5
FDSC 495D2	Food Science Seminar.	1.5
FDSC 525	Food Quality Assurance.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3

Additional Required Courses - Food Science Option (21 credits)

Expand allContract all

Course	Title	Credits
FDSC 233	Physical Chemistry.	3
FDSC 305	Food Chemistry 2.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 334	Analysis of Food Toxins and Toxicants.	3
FDSC 405	Food Product Development.	3
FDSC 516	Flavour Chemistry.	3
FDSC 540	Sensory Evaluation of Foods.	3

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major, chosen in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 401	Honours Research Project 1.	6
FAES 402	Honours Research Project 2.	6

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 405	Honours Project 1.	3
FAES 406	Honours Project 2.	3

Elective Courses (6 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

Food Science (Certificate) (30 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Certificate in Food Science

Program credit weight: 30

Program Description

This program is geared toward mature students, who have an undergraduate degree in a science-related discipline, to acquire the basic knowledge in the food science area to enter food-related industries or a food science graduate program. Students must complete a core course that introduces them to the basics of the field of food science and then choose complementary courses that allow a broad-based exposure in areas such as food chemistry/analysis, food microbiology/nutrition, quality assurance/safety, processing/engineering, communication skills, and ethics.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
FDSC 200	Introduction to Food Science.	3

Complementary Courses (27 credits)

27 credits (select no more than two 200-level courses)

Expand allContract all

Course	Title	Credits
AGRI 510	Professional Practice.	3
BREE 324	Elements of Food Engineering.	3
BREE 535	Food Safety Engineering.	3
FDSC 213	Analytical Chemistry 1.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 305	Food Chemistry 2.	3
FDSC 310	Post Harvest Fruit and Vegetable Technology.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 400	Food Packaging.	3
FDSC 405	Food Product Development.	3
FDSC 442	Food Microbiology.	3
FDSC 495D1	Food Science Seminar.	1.5
FDSC 495D2	Food Science Seminar.	1.5
FDSC 515	Enzymology.	3

FDSC 516	Flavour Chemistry.	3
FDSC 519	Advanced Food Processing.	3
FDSC 520	Biophysical Chemistry of Food.	3
FDSC 525	Food Quality Assurance.	3
FDSC 536	Food Traceability.	3
FDSC 537	Nutraceutical Chemistry.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3

Dietetics Major (B.Sc. (Nutr.Sc.)) (115 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 115

Program Description

The B.Sc.(Nutr.Sc.); Major in Dietetics is a 3.5 year competency-based program that focuses on food and nutrition, leadership, communication skills, management skills and critical thinking. The program includes 40 weeks of internship Professional Practice (Stage). The stage domains include: clinical nutrition care, public health nutrition and food provision management. The program is accredited by Accreditation Canada, and recognized by the Ordre des diététistes-nutritionnistes du Québec (ODNQ). Graduates of this accredited program are eligible to apply to become registered as a professional dietitian with the regulatory body of any province in Canada.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (112 credits)

Required courses and Professional Practice (Stage) courses are sequenced in a specific order over nine terms (3.5-year program). See <https://www.mcgill.ca/nutrition/programs/undergraduate/dietetics> for detailed information regarding the undergraduate program plan.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 208	Professional Practice Stage 1A.	2
NUTR 209	Professional Practice Stage 1B.	2
NUTR 214	Food Fundamentals.	4
NUTR 217	Application: Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 310	Professional Practice Stage 2A.	2
NUTR 311	Professional Practice Stage 2B.	5
NUTR 322	Applied Sciences Communication.	3
NUTR 337	Nutrition Through Life.	3
NUTR 341	Global Food Security.	3
NUTR 342	Applied Human Resources.	3
NUTR 343	Financial Management and Accounting.	3
NUTR 344	Clinical Nutrition 1.	4
NUTR 345	Food Service Systems Management.	3
NUTR 346	Applied Food Service Management.	3
NUTR 408	Professional Practice Stage 3A.	1
NUTR 409	Professional Practice Stage 3B.	9
NUTR 438	Interviewing and Counselling.	3
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 505	Public Health Nutrition.	3
NUTR 508	Professional Practice Stage 4A.	7
NUTR 509	Professional Practice Stage 4B.	7
NUTR 511	Nutrition and Behaviour.	3
NUTR 545	Clinical Nutrition 2.	4
NUTR 546	Clinical Nutrition 3.	4

Elective Courses (3 credits)

3 credits, chosen in consultation with the academic adviser.

Compulsory Immunization

A compulsory immunization program exists at McGill which is required for Dietetics students. Students should complete their immunization upon commencing Year 1 of the Dietetics Major. Confirmation of immunization will be coordinated by the Student Wellness Hub (<https://www.mcgill.ca/wellness-hub/>). Certain deadlines apply.

Nutrition Honours (B.Sc. (Nutr.Sc.)) (90 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 90

Program Description

B.Sc.(Nutr.Sc.); Honours in Nutrition is intended for students who are interested in gaining a concentrated research experience in Human Nutrition. Students in the B.Sc.(Nutr.Sc.) Nutrition Major program who have a CGPA of at least 3.6, and a grade of at least A- in all NUTR courses can apply to transfer in Winter U2 term. It is the responsibility of each student to find a professor to support and supervise a research project. Graduation requires completion of a minimum of 90 credits, with CGPA of at least 3.6, and a grade of at least A- in all NUTR courses. Students who do not maintain Honours standing may transfer registration to the B.Sc.(Nutr.Sc.) Nutrition Major.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (75 credits)

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 251	Food Chemistry 1.	3
FDSC 305	Food Chemistry 2.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 214	Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 322	Applied Sciences Communication.	3

NUTR 337	Nutrition Through Life.	3	• The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
NUTR 344	Clinical Nutrition 1.	4	
NUTR 401	Emerging Issues in Nutrition.	1	
NUTR 450	Research Methods: Human Nutrition.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
NUTR 491	Honours Research 1.	3	
NUTR 492	Honours Research 2.	3	
NUTR 493	Honours Research 3.	3	
NUTR 494	Honours Research 4.	3	
NUTR 507	Advanced Nutritional Biochemistry.	3	
NUTR 537	Advanced Human Metabolism.	3	
NUTR 551	Analysis of Nutrition Data.	3	

Elective Courses (15 credits)

15 credits chosen in consultation with the research supervisor, a limited number of credits may be taken at other Quebec and/or Canadian universities.

Nutrition Major - Food Function and Safety (B.Sc. (Nutr.Sc.)) (90 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 90

Program Description

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. The concentration in food function and safety covers the ranges from health effects of phytochemicals and food toxicants, food chemistry and analysis, food safety, product development and influence of constituents of food on health.

This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Required Courses (63 credits)

All required courses must be passed with a minimum grade of C.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 251	Food Chemistry 1.	3
FDSC 300	Principles of Food Analysis 1.	3
FDSC 305	Food Chemistry 2.	3
FDSC 525	Food Quality Assurance.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 214	Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 322	Applied Sciences Communication.	3
NUTR 337	Nutrition Through Life.	3
NUTR 344	Clinical Nutrition 1.	4
NUTR 401	Emerging Issues in Nutrition.	1
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 560	Biology of Lactation.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 545	Advances in Food Microbiology.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 503	Nutrition and Exercise.	3

NUTR 505	Public Health Nutrition.	3	non-governmental food and health agencies, in world development programs, in the food sector, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in public health, epidemiology, research, medicine, and dentistry or as specialists in nutrition.
NUTR 507	Advanced Nutritional Biochemistry.	3	
NUTR 511	Nutrition and Behaviour.	3	
NUTR 537	Advanced Human Metabolism.	3	
NUTR 545	Clinical Nutrition 2.	4	Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.
NUTR 546	Clinical Nutrition 3.	4	
NUTR 551	Analysis of Nutrition Data.	3	
PARA 438	Immunology.	3	For information on academic advising, see: http://www.mcgill.ca/macdonald/studentinfo/advising

6 credits selected from:

Expand allContract all

Course	Title	Credits
AGRI 510	Professional Practice.	3
ANSC 350	Food-Borne Pathogens.	3
FDSC 315	Separation Techniques in Food Analysis 1.	3
FDSC 319	Food Commodities.	3
FDSC 330	Food Processing.	3
FDSC 334	Analysis of Food Toxins and Toxicants.	3
FDSC 405	Food Product Development.	3
FDSC 442	Food Microbiology.	3
FDSC 516	Flavour Chemistry.	3
FDSC 520	Biophysical Chemistry of Food.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 540	Sensory Evaluation of Foods.	3
NUTR 430	Directed Studies: Dietetics and Nutrition 1.	3

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

Nutrition Major - Global Nutrition (B.Sc.(Nutr.Sc.)) (90 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 90

Program Description

This Major covers many aspects of human nutrition and food and their impact on health and society at the community and international level. It offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan. The specialization in global nutrition emphasizes the importance of the interaction of nutrition, diet, water, environment, and infection. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in national and international governmental and

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

All required courses must be passed with a minimum grade of C.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 251	Food Chemistry 1.	3
FDSC 305	Food Chemistry 2.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 214	Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 322	Applied Sciences Communication.	3
NUTR 337	Nutrition Through Life.	3
NUTR 344	Clinical Nutrition 1.	4
NUTR 401	Emerging Issues in Nutrition.	1
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 501	Nutrition in the Majority World.	3

NUTR 505	Public Health Nutrition.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits selected from:

Expand all		Contract all
Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
ANS 560	Biology of Lactation.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 545	Advances in Food Microbiology.	3
NUTR 503	Nutrition and Exercise.	3
NUTR 507	Advanced Nutritional Biochemistry.	3
NUTR 511	Nutrition and Behaviour.	3
NUTR 537	Advanced Human Metabolism.	3
NUTR 545	Clinical Nutrition 2.	4
NUTR 546	Clinical Nutrition 3.	4
NUTR 551	Analysis of Nutrition Data.	3
PARA 438	Immunology.	3

6 credits selected from:

Expand all		Contract all
Course	Title	Credits
AGEC 330	Agriculture and Food Markets.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 340	Principles of Ecological Agriculture.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANSC 560	Biology of Lactation.	3
ANTH 302	New Horizons in Medical Anthropology.	3
GEOG 303	Health Geography.	3
GEOG 403	Global Health and Environmental Change.	3
NUTR 341	Global Food Security.	3
NUTR 430	Directed Studies: Dietetics and Nutrition 1.	3
NUTR 506	Qualitative Methods in Nutrition.	3
PARA 410	Environment and Infection.	3
PARA 515	Water, Health and Sanitation.	3
PPHS 501	Population Health and Epidemiology.	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Elective Courses (15 credits)

15 credits of Electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

Nutrition Major - Metabolism, Health and Disease (B.Sc. (Nutr.Sc.)) (90 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 90

Program Description

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. This concentration emphasizes the influence of diet and nutrition on human health and the pathophysiology of inherited and acquired chronic disease. The links of nutrigenomics, nutrigenetics, and biotechnology with human health and regulation of metabolism are explored. This program does not lead to professional licensure as a dietitian/nutritionist.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

All required courses must be passed with a minimum grade of C.

Expand all

Contract all		Credits
Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 251	Food Chemistry 1.	3
FDSC 305	Food Chemistry 2.	3
LSCI 204	Genetics.	3

LSCI 211	Biochemistry 1.	3	BTEC 306	Experiments in Biotechnology.	3
LSCI 230	Introductory Microbiology.	3	MICR 341	Mechanisms of Pathogenicity.	3
NUTR 207	Nutrition and Health.	3	NUTR 430	Directed Studies: Dietetics and Nutrition 1.	3
NUTR 214	Food Fundamentals.	4	PARA 424	Fundamental Parasitology.	3
NUTR 307	Metabolism and Human Nutrition.	3	PATH 300	Human Disease.	3
NUTR 322	Applied Sciences Communication.	3	PHAR 300	Drug Action.	3
NUTR 337	Nutrition Through Life.	3	PHAR 301	Drugs and Disease.	3
NUTR 344	Clinical Nutrition 1.	4	PHAR 303	Principles of Toxicology.	3
NUTR 401	Emerging Issues in Nutrition.	1	PHGY 311	Channels, Synapses and Hormones.	3
NUTR 450	Research Methods: Human Nutrition.	3	PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
NUTR 507	Advanced Nutritional Biochemistry.	3	PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3			
NUTR 537	Advanced Human Metabolism.	3			

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits selected from:

Expand allContract all	
Course	Title
ANSC 433	Animal Nutrition and Metabolism.
ANSC 560	Biology of Lactation.
FDSC 537	Nutraceutical Chemistry.
FDSC 545	Advances in Food Microbiology.
NUTR 501	Nutrition in the Majority World.
NUTR 503	Nutrition and Exercise.
NUTR 505	Public Health Nutrition.
NUTR 511	Nutrition and Behaviour.
NUTR 545	Clinical Nutrition 2.
NUTR 546	Clinical Nutrition 3.
NUTR 551	Analysis of Nutrition Data.
PARA 438	Immunology.

6 credits selected from:

Expand allContract all	
Course	Title
ANAT 214	Systemic Human Anatomy.
ANAT 261	Introduction to Dynamic Histology.
ANAT 262	Introductory Molecular and Cell Biology.
ANAT 322	Neuroendocrinology.
ANSC 312	Animal Health and Disease.
ANSC 324	Developmental Biology and Reproduction.
ANSC 400	Eukaryotic Cells and Viruses.
ANSC 560	Biology of Lactation.
BIOL 300	Molecular Biology of the Gene.

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. A reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

Nutrition Major - Sports Nutrition (B.Sc.(Nutr.Sc.)) (90 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Nutritional Sciences)

Program credit weight: 90

Program Description

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. The concentration in sports nutrition integrates the influence of exercise and physical activity on health and chronic disease prevention. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

All required courses must be passed with a minimum grade of C.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
ANSC 234	Biochemistry 2.	3
ANSC 323	Mammalian Physiology.	3
ANSC 424	Metabolic Endocrinology.	3
EDKP 395	Exercise Physiology.	3
FDSC 200	Introduction to Food Science.	3
FDSC 251	Food Chemistry 1.	3
FDSC 305	Food Chemistry 2.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 214	Food Fundamentals.	4
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 322	Applied Sciences Communication.	3
NUTR 337	Nutrition Through Life.	3
NUTR 344	Clinical Nutrition 1.	4
NUTR 401	Emerging Issues in Nutrition.	1
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 503	Nutrition and Exercise.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 560	Biology of Lactation.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 545	Advances in Food Microbiology.	3

NUTR 501	Nutrition in the Majority World.	3
NUTR 505	Public Health Nutrition.	3
NUTR 507	Advanced Nutritional Biochemistry.	3
NUTR 511	Nutrition and Behaviour.	3
NUTR 537	Advanced Human Metabolism.	3
NUTR 545	Clinical Nutrition 2.	4
NUTR 546	Clinical Nutrition 3.	4
NUTR 551	Analysis of Nutrition Data.	3
PARA 438	Immunology.	3

6 credits selected from:

Course	Title	Credits
ANAT 214	Systemic Human Anatomy.	3
EDKP 261	Motor Development.	3
EDKP 330	Physical Activity and Public Health.	3
EDKP 445	Exercise Metabolism.	3
EDKP 446	Physical Activity and Ageing.	3
EDKP 448	Exercise and Health Psychology.	3
EDKP 449	Neuromuscular and Inflammatory Pathophysiology.	3
EDKP 485	Cardiopulmonary Exercise Pathophysiology.	3
EDKP 495	Scientific Principles of Training.	3
NUTR 430	Directed Studies: Dietetics and Nutrition 1.	3
NUTR 551	Analysis of Nutrition Data.	3

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval, students can take electives at any Canadian or international university.

Human Nutrition Minor (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The Minor Human Nutrition is intended to complement a student's primary field of study by providing a focused introduction to the metabolic aspects of human nutrition. It is particularly accessible to students in Biochemistry, Biology, Physiology, Anatomy and Cell Biology, Microbiology and Immunology, Animal Science, or Food Science programs. The completion of 24 credits is required, of which at least 18 must not overlap with the primary program. All courses must be taken in the appropriate sequence and passed with a minimum grade of C. Students may declare their intent to follow the Minor program at the

beginning of their U2 year. They must then consult with the academic adviser in the School of Human Nutrition to obtain approval for their course selection. Since some courses may not be offered every year and many have prerequisites, students are cautioned to plan their program in advance.

The Minor program does not carry professional recognition; therefore, it is not suitable for students wishing to become nutritionists or dietitians. However, successful completion may enable students to qualify for many postgraduate nutrition programs.

Note:

Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
NUTR 337	Nutrition Through Life.	3
NUTR 450	Research Methods: Human Nutrition.	3

Complementary Courses (18 credits)

18 credits are selected as follows:

3 credits in Biochemistry, one of:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
BIOC 311	Metabolic Biochemistry.	3

3 credits in Physiology, one of:

Expand allContract all

Course	Title	Credits
ANSC 323	Mammalian Physiology.	3
PHGY 210	Mammalian Physiology 2.	3

3 credits in Nutrition, one of:

Expand allContract all

Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
NUTR 307	Metabolism and Human Nutrition.	3

9 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 551	Carbohydrate and Lipid Metabolism.	3
ANSC 552	Protein Metabolism and Nutrition.	3
MIMM 314	Intermediate Immunology.	3
NUTR 344	Clinical Nutrition 1.	4

NUTR 430	Directed Studies: Dietetics and Nutrition 1.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 503	Nutrition and Exercise.	3
NUTR 505	Public Health Nutrition.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
NUTR 551	Analysis of Nutrition Data.	3
PARA 438	Immunology.	3
PATH 300	Human Disease.	3

Agribusiness Specialization (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The development of commercial agriculture relies on a large supporting sector of manufacturing and service companies involved in the supply of inputs to farming and the transportation, processing, and marketing of agricultural and food products.

This 24-credit specialization includes courses in agricultural sciences, agribusiness, and courses at the Desautels Faculty of Management.

This specialization is limited to students in the Major in Agricultural Economics.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AGEC 450	Agribusiness Management.	3
AGEC 491	Research and Methodology.	3
ANSC 250	Introduction to Livestock Management	3

Complementary Courses (12 credits)

9 credits selected from:

Expand allContract all

Course	Title	Credits
ACCT 361	Management Accounting.	3
AGRI 310	Internship in Agriculture/Environment.	3
BUSA 364	Business Law 1.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 331	Information Technology Management .	3

			Course	Title	Credits
MGCR 341	Introduction to Finance.	3	AGEC 200	Principles of Microeconomics.	3
MGCR 352	Principles of Marketing.	3	AGEC 201	Principles of Macroeconomics.	3
MGCR 382	International Business.	3	AGEC 231	Economic Systems of Agriculture.	3
ORGB 321	Leadership.	3	AGEC 320	Intermediate Microeconomic Theory.	3
			AGEC 330	Agriculture and Food Markets.	3
			AGEC 333	Resource Economics.	3
			AGEC 425	Applied Econometrics.	3
			AGEC 430	Agriculture, Food and Resource Policy.	3
			AGEC 442	Economics of International Agricultural Development.	3
			AGEC 491	Research and Methodology.	3
			ENVB 210	The Biophysical Environment.	3

Agricultural Economics Honours (B.Sc.(Ag.Env.Sc.)) (42 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 42

Program Description

This program is currently not offered.

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain Honours. Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the research activities involved will be documented and signed by the Program Director of the student's major, the supervisor of the research project, and the student.

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

Required Courses (33 credits)

Expand allContract all

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major, chosen in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 401	Honours Research Project 1.	6
FAES 402	Honours Research Project 2.	6

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

Expand allContract all

Course	Title	Credits
FAES 405	Honours Project 1.	3
FAES 406	Honours Project 2.	3

Complementary Courses (9 credits)

With the approval of the Academic Adviser, one introductory course in each of the following areas:

- Accounting
- Statistics
- Written/Oral Communication

Specialization (24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

- Agribusiness Specialization (24 credits)¹
- Environmental Economics Specialization (24 credits)¹
- Professional Agrology Specialization (24 credits)

¹ Membership to the OAQ requires successful completion of these two specializations.

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations" in this eCalendar.

Electives

To meet the minimum credit requirement for the degree.

Agricultural Economics Major (B.Sc.(Ag.Env.Sc.)) (42 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 42

Program Description

The B.Sc.(Agr.Env.Sc.); Major in Agricultural Economics is designed to meet the demand for sustainable development as it relates to the environment and resource use, and the economics and management of the global agriculture and food system. This multidisciplinary program in applied economics involves the application of theory and analytical methods to environmental issues and the agricultural and food system. Training in economic theory and applied areas such as marketing, finance, farm management, public policy, ecology, natural resources, and international development.

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for prerequisites and minimum credit requirements.

Required Courses (36 credits)

Expand all Contract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
AGEC 231	Economic Systems of Agriculture.	3
AGEC 320	Intermediate Microeconomic Theory.	3
AGEC 330	Agriculture and Food Markets.	3
AGEC 332	Farm Management and Finance.	3

AGEC 333	Resource Economics.	3
AGEC 425	Applied Econometrics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
ENVB 210	The Biophysical Environment.	3
MGCR 211	Introduction to Financial Accounting.	3

Complementary Courses (6 credits)

With the approval of the Academic Adviser, one introductory course in each of the following areas:

- Statistics
- Written/Oral Communication

Specialization (24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

Students taking the Major in Agricultural Economics must take one of the following specializations:

- Agribusiness (24 credits)
- Environmental Economics (24 credits)

Students who take the Specialization in Agribusiness can also take the Specialization in Professional Agrology for Agribusiness (24 credits). Membership to the OAQ requires successful completion of the Agribusiness and Professional Agrology for Agribusiness specializations.

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Browse Academic Units & Programs > Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.) > Specializations", in this eCalendar.

Electives

To meet the minimum credit requirement for the degree.

Animal Biology Specialization (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The specialization in Animal Biology is intended for students who wish to further their studies in the basic biology of large mammals and birds. Successful completion of the program should enable students to qualify for application to most veterinary colleges in North America,

to study in a variety of postgraduate biology programs, and to work in many laboratory settings.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 420	Animal Biotechnology.	3
PARA 438	Immunology.	3

Complementary Courses (9 credits)

9 credits selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 251	Comparative Anatomy.	3
ANSC 326	Fundamentals of Population Genetics.	3
ANSC 400	Eukaryotic Cells and Viruses.	3
ANSC 424	Metabolic Endocrinology.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 555	The Use and Welfare of Animals.	3
ANSC 560	Biology of Lactation.	3
LSCI 451	Research Project 1.	3

Animal Health and Disease Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

This specialization is offered for students wishing to understand general animal physiology and function; the susceptibility of animals to various diseases; methods for limiting and controlling potential outbreaks; and the resulting implications for the animal, the consumer and the environment. It is an ideal choice for students interested in the care of animals, or in working in laboratories where diseases are being researched.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 350	Food-Borne Pathogens.	3
ANSC 424	Metabolic Endocrinology.	3
MICR 341	Mechanisms of Pathogenicity.	3
PARA 424	Fundamental Parasitology.	3

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 251	Comparative Anatomy.	3
ANSC 303	Farm Animal Internship	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 555	The Use and Welfare of Animals.	3

Applied Ecology Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

Food, water, air, the materials we use, and much of the diversity of life and recreation we enjoy are products of ecological systems. We manage ecosystems to provide these services and our use and misuse often degrades the ability of ecosystems to provide the benefits and services we value. In the Applied Ecology specialization you will develop your ability to understand how ecosystems function. You will apply systems thinking to the challenge of managing ecosystems for agriculture, forestry, fisheries, protected areas and urban development. You will learn concepts and tools that help you to deal with the complexity that an ecosystem perspective brings. The goal of this specialization is to provide students with an opportunity to further develop their understanding of the ecosystem processes, ecology, and systems thinking necessary to understand, design and manage our interaction with the environment.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (9 credits)

Expand all Contract all

Course	Title	Credits
ENVB 305	Population and Community Ecology.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 529	GIS for Natural Resource Management.	3

Complementary Courses (15 credits)

15 credits selected from the following:

Expand all Contract all

Course	Title	Credits	
AGRI 340	Principles of Ecological Agriculture.	3	The Honours program consists of 12 credits of courses that follow one of two plans listed below.
BREE 327	Bio-Environmental Engineering.	3	Students who meet all the requirements will have the name of their program changed to include the word "Honours."
ENTO 330	Insect Biology.	3	A brief description of the Honours project activities involved will be documented and signed by the Program Director of the student's Major, the supervisor of the Honours project, and the student.
ENTO 340	Field Entomology.	3	The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change.
ENVB 301	Meteorology.	3	Environmental Biology has significant field components worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.
ENVB 313	Phylogeny and Biogeography.	3	
ENVB 415	Ecosystem Management.	3	
ENVB 500	Advanced Topics in Ecotoxicology.	3	
ENVB 506	Quantitative Methods: Ecology.	3	
ENVB 530	Advanced GIS for Natural Resource Management.	3	
MICR 331	Microbial Ecology.	3	
MICR 450	Environmental Microbiology.	3	
PLNT 304	Biology of Fungi.	3	
PLNT 426	Plant Ecophysiology.	3	
PLNT 460	Plant Ecology.	3	
SOIL 300	Geosystems.	3	
SOIL 326	Soils in a Changing Environment.	3	
SOIL 535	Soil Ecology.	3	
WILD 302	Fish Ecology.	3	
WILD 307	Natural History of Vertebrates.	3	
WILD 350	Mammalogy.	3	
WILD 420	Ornithology.	3	
WILD 421	Wildlife Conservation.	3	

Environmental Biology Honours (B.Sc.(Ag.Env.Sc.)) (54 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 54

Program Description

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's Major and Specialization.

In addition to satisfying the Honours requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the Honours project activities involved will be documented and signed by the Program Director of the student's Major, the supervisor of the Honours project, and the student.

The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change. Environmental Biology has significant field components worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for information on prerequisites and minimum credit requirements.

Required Courses (36 credits)

Expand all Contract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
AEBI 212	Evolution and Phylogeny.	3
AEHM 205	Science Literacy.	3
AEMA 310	Statistical Methods 1.	3
ENVB 210	The Biophysical Environment.	3
ENVB 222	St. Lawrence Ecosystems.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology.	3
LSCI 204	Genetics.	3

LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3

Complementary Courses (18 credits)

6 credits from the following:

Expand all Contract all

Course	Title	Credits
ENTO 330	Insect Biology.	3
ENVB 301	Meteorology.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 497	Research Project 1.	3
ENVB 498	Research Project 2.	3
ENVB 529	GIS for Natural Resource Management.	3
FAES 300	Internship 2.	3
MICR 331	Microbial Ecology.	3
PLNT 304	Biology of Fungi.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 460	Plant Ecology.	3
SOIL 300	Geosystems.	3
WILD 302	Fish Ecology.	3
WILD 307	Natural History of Vertebrates.	3
WOOD 441	Integrated Forest Management.	3

Honours Courses

12 credits of Honours Plan A or Plan B:

Honours Plan A

12 credits of Honours research courses in the subject area of the student's Major, chosen in consultation with the Program Director of the student's Major and the professor who has agreed to supervise the research project.

Expand all Contract all

Course	Title	Credits
ENVB 401	Honours Research Project 1.	6
ENVB 402	Honours Research Project 2.	6

OR

Honours Plan B

6 credits of Honours project courses in the subject area of the student's Major as well as 6 credits in 400- or 500-level courses, normally selected from the Faculty of Agricultural and Environmental Sciences, in consultation with the Program Director of the student's Major and the professor who has agreed to supervise the project.

Expand all Contract all

Course	Title	Credits
ENVB 405	Honours Project 1.	3
ENVB 406	Honours Project 2	3

Specialization

At least one specialization of 18-24 credits.

Specializations designed to be taken with the Environmental Biology Major:

- Applied Ecology
- Plant Biology
- Wildlife Biology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations" in this eCalendar. Consult the Academic Adviser for approval of specializations other than those listed above.

Electives

To meet the minimum credit requirement for the degree.

Environmental Biology Major (B.Sc.(Ag.Env.Sc.)) (42 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 42

Program Description

The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change. Environmental Biology has significant field components worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for information on prerequisites and minimum credit requirements.

Required Courses (36 credits)

Expand all Contract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3

AEBI 212	Evolution and Phylogeny.	3
AEHM 205	Science Literacy.	3
AEMA 310	Statistical Methods 1.	3
ENVB 210	The Biophysical Environment.	3
ENVB 222	St. Lawrence Ecosystems.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3

Electives

To meet the minimum credit requirement for the degree.

Environmental Economics Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

Expand allContract all

Course	Title	Credits
ENTO 330	Insect Biology.	3
ENVB 301	Meteorology.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 497	Research Project 1.	3
ENVB 498	Research Project 2.	3
FAES 300	Internship 2.	3
MICR 331	Microbial Ecology.	3
PLNT 304	Biology of Fungi.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 460	Plant Ecology.	3
SOIL 300	Geosystems.	3
WILD 302	Fish Ecology.	3
WILD 307	Natural History of Vertebrates.	3
WOOD 441	Integrated Forest Management.	3

Specialization

At least one specialization of 18-24 credits.

Specializations designed to be taken with the Environmental Biology Major:

- Applied Ecology
- Plant Biology
- Wildlife Biology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations", in this eCalendar. Consult the Academic Adviser for approval of specializations other than those listed above.

Program Description

This specialization integrates environmental sciences and decision making with the economics of environment and sustainable development. It is designed to prepare students for careers in natural resource management and the analysis of environmental problems and policies.

This specialization is limited to students in the Major Agricultural Economics.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
AGEC 491	Research and Methodology.	3
ENVB 305	Population and Community Ecology.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 506	Quantitative Methods: Ecology.	3

Complementary Courses (12 credits)

12 credits chosen from the following list:

Expand allContract all

Course	Title	Credits
AGRI 310	Internship in Agriculture/Environment.	3
BREE 217	Hydrology and Water Resources.	3
BREE 327	Bio-Environmental Engineering.	3
ECON 225	Economics of the Environment.	3
ECON 326	Ecological Economics.	3
ECON 405	Natural Resource Economics.	3
ENVB 222	St. Lawrence Ecosystems.	3
ENVB 301	Meteorology.	3
ENVB 529	GIS for Natural Resource Management.	3
ENVR 203	Knowledge, Ethics and Environment.	3
MGPO 440	Strategies for Sustainability.	3
MICR 331	Microbial Ecology.	3

NRSC 333	Pollution and Bioremediation.	3	LSCI 204	Genetics.	3
WILD 421	Wildlife Conservation.	3	LSCI 211	Biochemistry 1.	3

Life Sciences (Biological and Agricultural) Honours (B.Sc. (Ag.Env.Sc.)) (54 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 54

Program Description

Students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain Honours.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the Honours project activities involved will be documented and signed by the Program Director of the student's Major, the supervisor of the Honours project, and the student.

The Life Sciences (Biological and Agricultural) Major provides a strong foundation in the basic biological sciences. It will prepare graduates for careers in the agricultural, environmental, health, and biotechnological fields. Graduates with high academic achievement may go on to postgraduate studies in research, or professional programs in the biological, veterinary, medical, and health sciences fields.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this Course Catalogue for prerequisites and minimum credit requirements.

Required Courses (45 credits)

Expand allContract all		Credits
Course	Title	
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
AEBI 212	Evolution and Phylogeny.	3
AEHM 205	Science Literacy.	3
AEMA 310	Statistical Methods 1. ¹	3
ANSC 400	Eukaryotic Cells and Viruses.	3
LSCI 202	Molecular Cell Biology.	3

3	LSCI 230	Introductory Microbiology.	3
3	LSCI 401	Honours Research Project 1.	6
3	LSCI 402	Honours Research Project 2.	6
3	PARA 438	Immunology.	3

¹ Other appropriate Statistics courses may be approved as substitutes by the Program Director.

Complementary Courses (9 credits)

9 credits of the complementary courses selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 250	Introduction to Livestock Management	3
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 326	Fundamentals of Population Genetics.	3
ANSC 420	Animal Biotechnology.	3
BINF 511	Bioinformatics for Genomics.	3
BTEC 306	Experiments in Biotechnology.	3
ENVB 210	The Biophysical Environment.	3
ENVB 222	St. Lawrence Ecosystems.	3
FAES 300	Internship 2.	3
LSCI 451	Research Project 1.	3
LSCI 452	Research Project 2.	3
MICR 331	Microbial Ecology.	3
MICR 338	Bacterial Molecular Genetics.	3
MICR 341	Mechanisms of Pathogenicity.	3
MICR 450	Environmental Microbiology.	3
NRSC 333	Pollution and Bioremediation.	3
PARA 410	Environment and Infection.	3
PARA 424	Fundamental Parasitology.	3
PLNT 304	Biology of Fungi.	3
PLNT 353	Plant Structure and Function.	3
PLNT 426	Plant Ecophysiology.	3
PLNT 435	Plant Breeding.	3

Specialization

At least one specialization of 18-24 credits from:

Specializations designed to be taken with the Life Sciences (Biological and Agricultural) Major:

- Animal Biology
- Animal Health and Disease
- Life Sciences (Multidisciplinary)
- Microbiology and Molecular Biotechnology
- Plant Science

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations" in this eCalendar.

Electives

To meet the minimum credit requirement for the degree.

Life Sciences (Biological and Agricultural) Major (B.Sc. (Ag.Env.Sc.)) (42 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 42

Program Description

The Life Sciences (Biological and Agricultural) Major provides a strong foundation in the basic biological sciences. It will prepare graduates for careers in the agricultural, environmental, health, and biotechnological fields. Graduates with high academic achievement may go on to postgraduate studies in research, or professional programs in the biological, veterinary, medical, and health sciences fields.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this Course Catalogue for prerequisites and minimum credit requirements.

Default Specialization: Students who do not select a Specialization will automatically be assigned to the Life Sciences (Multidisciplinary) Specialization upon entering U2.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
AEBI 212	Evolution and Phylogeny.	3
AEHM 205	Science Literacy. ¹	3
AEMA 310	Statistical Methods 1.	3
ANSC 400	Eukaryotic Cells and Viruses.	3
LSCI 202	Molecular Cell Biology.	3
LSCI 204	Genetics.	3

LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
PARA 438	Immunology.	3

¹ Other appropriate Statistics courses may be approved as substitutes by the Program Director.

Complementary Courses (9 credits)

9 credits of the complementary courses selected from:

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
ANSC 250	Introduction to Livestock Management	3
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 326	Fundamentals of Population Genetics.	3
ANSC 420	Animal Biotechnology.	3
BINF 511	Bioinformatics for Genomics.	3
BTEC 306	Experiments in Biotechnology.	3
ENVB 210	The Biophysical Environment.	3
ENVB 222	St. Lawrence Ecosystems.	3
FAES 300	Internship 2.	3
LSCI 451	Research Project 1.	3
LSCI 452	Research Project 2.	3
MICR 331	Microbial Ecology.	3
MICR 338	Bacterial Molecular Genetics.	3
MICR 341	Mechanisms of Pathogenicity.	3
MICR 450	Environmental Microbiology.	3
NRSC 333	Pollution and Bioremediation.	3
PARA 410	Environment and Infection.	3
PARA 424	Fundamental Parasitology.	3
PLNT 304	Biology of Fungi.	3
PLNT 353	Plant Structure and Function.	3
PLNT 426	Plant Ecophysiology.	3
PLNT 435	Plant Breeding.	3

Specialization

At least one specialization of 18-24 credits from:

Specializations designed to be taken with the Life Sciences (Biological and Agricultural) Major:

- Animal Biology
- Animal Health and Disease
- Life Sciences (Multidisciplinary)
- Microbiology and Molecular Biotechnology

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Browse Academic Units & Programs" > "Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.)" > "Specializations" in this eCalendar.

Electives

To meet the minimum credit requirement for the degree.

Life Sciences (Multidisciplinary) Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

Students taking this specialization have a wide variety of Life Sciences course offerings to choose from, which allow them to target their program to their own interests in the field. Course choices are balanced between "fundamentals" and "applications." Depending upon the courses chosen, the resulting program may be relatively specialized or very broad, spanning several disciplines. Such a broad background in Life Sciences will open up employment opportunities in a variety of diverse bioscience industries; students with an appropriate CGPA may proceed to a wide variety of postgraduate programs or professional schools.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Complementary Courses (24 credits)

24 credits selected from the following list:

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 326	Fundamentals of Population Genetics.	3
ANSC 350	Food-Borne Pathogens.	3
ANSC 420	Animal Biotechnology.	3
ANSC 424	Metabolic Endocrinology.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 560	Biology of Lactation.	3
BINF 511	Bioinformatics for Genomics.	3
BTEC 306	Experiments in Biotechnology.	3
BTEC 535	Functional Genomics in Model Organisms.	3

BTEC 555	Structural Bioinformatics.	3
ENTO 330	Insect Biology.	3
ENTO 352	Biocontrol of Pest Insects.	3
ENVB 301	Meteorology.	3
ENVB 305	Population and Community Ecology.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 506	Quantitative Methods: Ecology.	3
ENVB 529	GIS for Natural Resource Management.	3
FDSC 442	Food Microbiology.	3
MICR 331	Microbial Ecology.	3
MICR 338	Bacterial Molecular Genetics.	3
MICR 341	Mechanisms of Pathogenicity.	3
MICR 450	Environmental Microbiology.	3
NUTR 337	Nutrition Through Life.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
PARA 410	Environment and Infection.	3
PARA 424	Fundamental Parasitology.	3
PARA 515	Water, Health and Sanitation.	3
PLNT 304	Biology of Fungi.	3
PLNT 305	Plant Pathology.	3
PLNT 310	Plant Propagation.	3
PLNT 353	Plant Structure and Function.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 426	Plant Ecophysiology.	3
PLNT 434	Weed Biology and Control.	3
PLNT 435	Plant Breeding.	3
PLNT 460	Plant Ecology.	3

Microbiology and Molecular Biotechnology Specialization (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

Students following this specialization receive education and training in fundamental principles and applied aspects of microbiology. Complementary courses allow students to focus on basic microbial sciences or applied areas such as biotechnology. Successful graduates may work in university, government and industrial research laboratories, in the pharmaceutical, fermentation and food industries, and with an appropriate CGPA proceed to post-graduate studies or professional biomedical schools.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
BTEC 306	Experiments in Biotechnology.	3
MICR 331	Microbial Ecology.	3
MICR 338	Bacterial Molecular Genetics.	3
MICR 341	Mechanisms of Pathogenicity.	3
MICR 450	Environmental Microbiology.	3
PARA 424	Fundamental Parasitology.	3

Complementary Courses and Suggested Electives (6 credits)

Expand allContract all

Course	Title	Credits
ANSC 350	Food-Borne Pathogens.	3
ANSC 420	Animal Biotechnology.	3
BINF 511	Bioinformatics for Genomics.	3
BTEC 501	Bioinformatics.	3
BTEC 535	Functional Genomics in Model Organisms.	3
BTEC 555	Structural Bioinformatics.	3
FDSC 442	Food Microbiology.	3
MIMM 324	Fundamental Virology.	3
PLNT 304	Biology of Fungi.	3

Plant Biology Specialization (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

This specialization emphasizes the study of plants from the cellular to the organismal level. The structure, physiology, development, evolution, and ecology of plants will be studied. Most courses offer laboratory classes that expand on the lecture material and introduce students to the latest techniques in plant biology. Many laboratory exercises use the excellent research and field facilities at the Morgan Arboretum, McGill Herbarium, Emile A. Lods Agronomy Research Centre, the Horticultural Centre and the Plant Science greenhouses as well as McGill field stations. Students may undertake a research project under the guidance of a member of the Plant Science Department as part of their studies. Graduates with the specialization may continue in post-graduate study or work in the fields of botany, mycology, molecular biology, ecology, conservation, or environmental science.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
PLNT 353	Plant Structure and Function.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 426	Plant Ecophysiology.	3

Complementary Courses (15 credits)

15 credits of complementary courses selected from:

Expand allContract all

Course	Title	Credits
ANSC 326	Fundamentals of Population Genetics.	3
BINF 511	Bioinformatics for Genomics.	3
ENVB 313	Phylogeny and Biogeography.	3
PLNT 304	Biology of Fungi.	3
PLNT 305	Plant Pathology.	3
PLNT 310	Plant Propagation.	3
PLNT 435	Plant Breeding.	3
PLNT 460	Plant Ecology.	3

Professional Agrology for Agribusiness Specialization (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

This Specialization is required for students who wish to qualify for membership in the Ordre des agronomes du Québec (OAQ). It cannot be taken alone; it must be taken with the Major in Agricultural Economics and the Agribusiness Specialization. This Specialization focuses on working in the professional agribusiness industry and covers agricultural legislation as well as professional conduct.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
AGRI 310	Internship in Agriculture/Environment.	3
AGRI 330	Agricultural Legislation.	1

AGRI 410D1	Agrology Internship.	1.5	AGRI 410D2	Agrology Internship.	1.5
AGRI 410D2	Agrology Internship.	1.5	AGRI 430	Professional Practice in Agrology.	2
AGRI 430	Professional Practice in Agrology.	2	AGRI 490	Agri-Food Industry Project.	3
AGRI 490	Agri-Food Industry Project.	3	PLNT 430	Pesticides in Agriculture.	3
ANSC 458	Advanced Livestock Management	3			

Complementary Courses (9 credits)

6 credits from:

Expand allContract all		
Course	Title	Credits
AEBI 212	Evolution and Phylogeny.	3
LSCI 202	Molecular Cell Biology.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3

3 credits from:

Expand allContract all		
Course	Title	Credits
PLNT 200	Introduction to Crop Science	3
PLNT 302	Forage Crops and Pastures.	3
PLNT 434	Weed Biology and Control.	3

Professional Agrology Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The Specialization in Professional Agrology focuses on agricultural legislation, professional conduct, and working in the professional agrology industry. This Specialization may be taken with the Major in Sustainable Agricultural Systems. Taken in addition with a Specialization in Field Crops and Horticulture, Global Food Security, or Livestock, the eligibility requirements for the Ordre des agronomes du Québec will be met.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
AGRI 330	Agricultural Legislation.	1
AGRI 410D1	Agrology Internship.	1.5

Complementary Courses (18 credits)

18 credits from one of the following specializations; students must be enrolled in the Major in Sustainable Agricultural Systems:

Field Crops and Horticulture

Expand allContract all

Course	Title	Credits
PLNT 302	Forage Crops and Pastures.	3
PLNT 305	Plant Pathology.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 353	Plant Structure and Function.	3
PLNT 434	Weed Biology and Control.	3
PLNT 435	Plant Breeding.	3

Global Food Security

Expand allContract all

Course	Title	Credits
AEIS 230	Indigenous Health & Nutrition	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
AGRI 493	International Project Management.	3
NUTR 341	Global Food Security.	3

Livestock

Expand allContract all

Course	Title	Credits
ANSC 301	Principles of Animal Breeding.	3
ANSC 303	Farm Animal Internship	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 458	Advanced Livestock Management	3
ANSC 555	The Use and Welfare of Animals.	3

Wildlife Biology Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

This specialization focuses on the ecology of vertebrate animals, their biological and physical environment, and the interactions that are important in the management of ecological communities and wildlife species. Students have access to local wildlife resources including the Avian Science and Conservation Centre, the McGill Arboretum, the Stonycroft Wildlife Area, the Molson Reserve, and the Ecomuseum.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ENVB 529	GIS for Natural Resource Management.	3
WILD 307	Natural History of Vertebrates.	3
WILD 350	Mammalogy.	3
WILD 401	Fisheries and Wildlife Management.	3
WILD 420	Ornithology.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 307	Behavioural Ecology.	3
BIOL 427	Herpetology.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 506	Quantitative Methods: Ecology.	3
PARA 424	Fundamental Parasitology.	3
PLNT 358	Flowering Plant Diversity.	3
WILD 302	Fish Ecology.	3
WILD 421	Wildlife Conservation.	3
WILD 475	Desert Ecology.	3

Agricultural Economics Minor (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The Minor in Agricultural Economics will complement a student's education in four ways. First, as a social science, Economics will provide an alternative perspective for students in the Faculty. Second, the Minor will provide an excellent foundation of the workings of the economy at large. Third, it will aid students in understanding the business environment surrounding the agri-food industry. Finally, it will

challenge students to analyze the interaction between the agricultural economy and the natural resource base.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
AGEC 330	Agriculture and Food Markets.	3
AGEC 333	Resource Economics.	3

Complementary Courses (12 credits)

12 credits selected from:

Expand allContract all

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 320	Intermediate Microeconomic Theory.	3
AGEC 332	Farm Management and Finance.	3
AGEC 425	Applied Econometrics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGEC 450	Agribusiness Management.	3
AGEC 491	Research and Methodology.	3

Applied Ecology Minor (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

Food, water, air, the materials we use, and much of the diversity of life and recreation we enjoy are products of ecological systems. We manage ecosystems to provide these services and our use and misuse often degrades the ability of ecosystems to provide the benefits and services we value. In the Minor Applied Ecology you will develop your ability to understand how ecosystems function. You will apply systems thinking to the challenge of managing ecosystems for agriculture, forestry, fisheries, protected areas, and urban development. Concepts and tools will be presented that help you to deal with the complexity that an ecosystem perspective brings. The goal of this minor is to provide students with an opportunity to further develop their understanding of the ecosystem processes, ecology, and systems thinking necessary to understand, design, and manage our interaction with the environment.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

To obtain a Minor in Applied Ecology, students must:

1. Ensure all required and complementary courses are passed with a minimum grade of C;
2. Select 24 credits from the courses as given below, of which not more than 6 credits may be counted toward the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENVB 305	Population and Community Ecology.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 529	GIS for Natural Resource Management.	3

Complementary Courses (15 credits)

15 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
AGRI 340	Principles of Ecological Agriculture.	3
BREE 327	Bio-Environmental Engineering.	3
ENTO 330	Insect Biology.	3
ENTO 340	Field Entomology.	3
ENVB 301	Meteorology.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 415	Ecosystem Management.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
ENVB 506	Quantitative Methods: Ecology.	3
ENVB 530	Advanced GIS for Natural Resource Management.	3
MICR 331	Microbial Ecology.	3
MICR 450	Environmental Microbiology.	3
PLNT 304	Biology of Fungi.	3
PLNT 426	Plant Ecophysiology.	3
PLNT 460	Plant Ecology.	3
SOIL 300	Geosystems.	3
SOIL 326	Soils in a Changing Environment.	3
SOIL 535	Soil Ecology.	3
WILD 302	Fish Ecology.	3
WILD 307	Natural History of Vertebrates.	3
WILD 350	Mammalogy.	3
WILD 420	Ornithology.	3
WILD 421	Wildlife Conservation.	3

Ecological Agriculture Minor (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

The Minor Ecological Agriculture is designed to focus on the principles underlying the practice of ecological agriculture and is suitable for students wishing to farm and do extension and government work, and those intending to pursue postgraduate studies in this field.

This Minor can be associated with existing major programs in the Faculty, but in some instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised, during the U1 year, to consult their Major program adviser and the Academic Adviser of the Minor. At the time of registration for the U2 year, students must declare their intent to obtain the Minor. With the agreement of their Major program adviser they must submit their program of courses already taken, and to be taken, to the Academic Adviser of the Minor. The Academic Adviser of the Minor will then certify which courses the student will apply toward the Minor and confirm that the student's program conforms with its requirements.

For information on academic advising, see: <https://www.mcgill.ca/macdonald/studentinfo/advising>

General Regulations

To obtain a Minor in Ecological Agriculture, students must:

1. Ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
2. Offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (12 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 340	Principles of Ecological Agriculture.	3
SOIL 535	Soil Ecology.	3

Complementary Courses (12 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits	
AGRI 310	Internship in Agriculture/Environment.	3	must be approved by the academic adviser for the specialization/ Minor/certificate.
AGRI 411	Global Issues on Development, Food and Agriculture.	3	
ANSC 312	Animal Health and Disease.	3	
BREE 327	Bio-Environmental Engineering.	3	
ENTO 352	Biocontrol of Pest Insects.	3	
MICR 331	Microbial Ecology.	3	
NUTR 341	Global Food Security.	3	
PLNT 302	Forage Crops and Pastures.	3	
PLNT 307	Agroecology of Vegetables and Fruits.	3	
PLNT 312	Urban Horticulture.	3	
PLNT 434	Weed Biology and Control.	3	
PLNT 460	Plant Ecology.	3	
WOOD 441	Integrated Forest Management.	3	

Ecological Agriculture (Certificate) (30 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Certificate in Ecological Agriculture

Program credit weight: 30

Program Description

This 30-credit certificate program is very similar to the Minor program and is designed to focus on the principles underlying the practice of ecological agriculture. The certificate may be of special interest to professional agrologists who want further training, as well as formal recognition that they have completed a coherent program of courses beyond their B.Sc. studies.

Students holding a B.Sc. in agriculture or a related area are eligible to register for this program provided that they are otherwise acceptable for admission to the University. Students who have completed the Minor or specialization in Ecological Agriculture are not permitted to register for this program.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

General Regulations

To obtain a certificate in Ecological Agriculture, students must complete a minimum total of 30 credits from the courses as given below.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study to ensure that they have met all conditions.
2. Students using AGRI 310 Internship in Agriculture/Environment toward the requirements of the Specialization/Minor/Certificate are limited to an experience on farms or other enterprises that are organic, biodynamic, or practising permaculture. The placement

Required Courses (12 credits)

Expand all Contract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 340	Principles of Ecological Agriculture.	3
SOIL 535	Soil Ecology.	3

Complementary Courses (18 credits)

18 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture.

Expand all Contract all

Course	Title	Credits
AGRI 310	Internship in Agriculture/Environment.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANSC 312	Animal Health and Disease.	3
ENTO 352	Biocontrol of Pest Insects.	3
ENVB 305	Population and Community Ecology.	3
ENVB 415	Ecosystem Management.	3
MICR 331	Microbial Ecology.	3
NUTR 341	Global Food Security.	3
PARA 424	Fundamental Parasitology.	3
PLNT 302	Forage Crops and Pastures.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 434	Weed Biology and Control.	3
PLNT 460	Plant Ecology.	3
SOIL 326	Soils in a Changing Environment.	3
WOOD 441	Integrated Forest Management.	3

Agricultural Production Minor (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

This Minor program is designed to allow students in non-agricultural production majors to receive credit for courses in agricultural production and to stimulate "cross-over" studies. The Minor can be associated with existing major programs in the Faculty, but in some

instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised to consult their major program adviser and the Academic Adviser of the Minor in their first year. At the time of registration for their penultimate year, students must declare their intent to obtain a Minor Agricultural Production. With the agreement of their major program adviser, they must submit their program of courses already taken, and to be taken in their final year, to the Academic Adviser of the Agricultural Production Minor. The Academic Adviser of the Agricultural Production Minor will then certify which courses the student will apply toward the Minor and that the student's program conforms with the requirements of the Minor.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.
2. Not all courses are offered every year. For information on available courses, consult Class Schedule at <http://www.mcgill.ca/minerva>. Complete listings can be found in the "Courses" section of this Course Catalogue.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

General Regulations

To obtain a Minor in Agricultural Production, students must:

1. ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
2. offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
ANSC 250	Introduction to Livestock Management	3
ENVB 210	The Biophysical Environment.	3
PLNT 200	Introduction to Crop Science	3

Complementary Courses (12 credits)

12 credits chosen from the following list in consultation with the Academic Adviser for the Minor:

Expand allContract all

Course	Title	Credits
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 340	Principles of Ecological Agriculture.	3
ANSC 458	Advanced Livestock Management	3

PLNT 302	Forage Crops and Pastures.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3

Commercial Cannabis (Dip.) (30 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Program credit weight: 30

Program Description

This program is not currently offered

The Diploma in Commercial Cannabis focuses on ethical, medical, and legal issues related to the commercial cannabis industry, cannabis medicinal chemistry, contaminants and product development, as well as theoretical and hands-on experience of production, breeding and disease management. The program includes an internship that involves solving a specific problem that the commercial cannabis industry is facing. The program will extend over 12 months.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
FDSC 475	Introduction to Cannabis and Cannabinoids.	3
FDSC 476	Contaminants in Cannabis.	3
FDSC 477	Introduction to Cannabis Product Design.	3
PLNT 470	Cannabis Issues and Concerns.	3
PLNT 471	Commercial Cannabis Production.	4
PLNT 472	Cannabis Genetics and Breeding.	4
PLNT 473	Control of Cannabis Diseases.	4
PLNT 474	Commercial Cannabis Internship.	6

Field Crops and Horticulture Specialization (B.Sc. (Ag.Env.Sc.)) (18 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 18

Program Description

The Specialization in Field Crops and Horticulture focuses on the biology and physiology, breeding, propagation, and management of domesticated crops and vegetables. This Specialization may be taken under the Major in Sustainable Agricultural Systems, and offers the opportunity to take dedicated agronomic content leading to an additional Specialization in Professional Agrology, thereby meeting the eligibility requirements for the Ordre des agronomes du Québec.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
PLNT 302	Forage Crops and Pastures.	3
PLNT 305	Plant Pathology.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 353	Plant Structure and Function.	3
PLNT 434	Weed Biology and Control.	3
PLNT 435	Plant Breeding.	3

Program Description

** This program is currently not offered. **

This specialization will interest students who want to understand how soils and water interact within managed ecosystems such as urban or agricultural landscapes. The conservation and management of agricultural soils, issues affecting watershed management and decision making, and the remediation of contaminated soils will be examined. When taken with the Agro-Environmental Sciences Major and the specialization in Professional Agrology, this specialization conforms with the eligibility requirements for the Ordre des agronomes du Québec.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Global Food Security Specialization (B.Sc. (Ag.Env.Sc.)) (18 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 18

Program Description

The Specialization in Global Food Security focuses on agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in a world context, including global contexts and economically sustainable approaches to provide acceptable nutrition, water resources, sustainable development, nutrition, planning and development. This Specialization may be taken with the Major in Sustainable Agricultural Systems and offers the possibility to take dedicated agronomic content leading to an additional Specialization in Professional Agrology, thereby meeting the eligibility requirements for the Ordre des agronomes du Québec.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
AEIS 230	Indigenous Health & Nutrition	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
AGRI 493	International Project Management.	3
NUTR 341	Global Food Security.	3

Soil and Water Resources Specialization (B.Sc. (Ag.Env.Sc.)) (24 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
AGRI 435	Soil and Water Quality Management.	3
BREE 217	Hydrology and Water Resources.	3
SOIL 326	Soils in a Changing Environment.	3
SOIL 331	Environmental Soil Physics.	3
SOIL 535	Soil Ecology.	3

Complementary Courses (9 credits)

Expand allContract all

Course	Title	Credits
BREE 322	Management of Organic Residue	3
BREE 327	Bio-Environmental Engineering.	3
BREE 510	Watershed Systems Management.	3
BREE 529	GIS for Natural Resource Management.	1
ENVB 529	GIS for Natural Resource Management.	1
NRSC 333	Pollution and Bioremediation.	3
SOIL 300	Geosystems.	3

¹ Note: Students may take BREE 529 GIS for Natural Resource Management. or ENVB 529 GIS for Natural Resource Management., but not both.

Sustainable Agricultural Systems Major (B.Sc. (Ag.Env.Sc.)) (69 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 69

Program Description

The B.Sc.(Ag.Env.Sc.); Major in Sustainable Agricultural Systems focuses on the knowledge, skills, and hands-on experience needed to drive positive change in the agricultural sector, ensuring that it supports healthy communities and a thriving planet, including ecological stewardship, innovative farming practices, and the promotion of food security through sustainable methods. The Major includes practical field experiences and collaborative opportunities. Along with the Specialization in Professional Agrology, this Major will allow eligibility to become a member of the Ordre des agronomes du Québec (OAQ).

Required Courses (48 credits)

Expand allContract all

Course	Title	Credits
AEMA 204	Data Analytics for Biosystems	3
AEMA 310	Statistical Methods 1.	3
AGEC 200	Principles of Microeconomics.	3
AGEC 231	Economic Systems of Agriculture.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 310	Internship in Agriculture/Environment.	3
AGRI 340	Principles of Ecological Agriculture.	3
ANSC 250	Introduction to Livestock Management	3
BREE 329	Precision Agriculture.	3
ENVB 210	The Biophysical Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
LSCI 204	Genetics.	3
LSCI 211	Biochemistry 1.	3
LSCI 230	Introductory Microbiology.	3
PLNT 200	Introduction to Crop Science	3
SOIL 315	Soil Nutrient Management.	3

Complementary Courses (21 credits)

6-12 credits [3-6 credits from two of the following three groups]; courses chosen from these groups may not be the same as those chosen in the student's specialization [i.e., no double-counting of credits of the Specialization and this Major is permitted]:

Field Crops and Horticulture

Expand allContract all

Course	Title	Credits
PLNT 302	Forage Crops and Pastures.	3
PLNT 305	Plant Pathology.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3
PLNT 353	Plant Structure and Function.	3
PLNT 434	Weed Biology and Control.	3
PLNT 435	Plant Breeding.	3

Global Food Security

Expand allContract all

Course	Title	Credits
AEIS 230	Indigenous Health & Nutrition	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
AGRI 493	International Project Management.	3
NUTR 341	Global Food Security.	3

Livestock

Expand allContract all

Course	Title	Credits
ANSC 301	Principles of Animal Breeding.	3
ANSC 303	Farm Animal Internship	3
ANSC 324	Developmental Biology and Reproduction.	3
ANSC 433	Animal Nutrition and Metabolism.	3
ANSC 458	Advanced Livestock Management	3
ANSC 555	The Use and Welfare of Animals.	3

0-15 credits from the following:

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ANSC 323	Mammalian Physiology.	3
ANSC 514	Coding for Production Data	3
ANSC 560	Biology of Lactation.	3
BREE 217	Hydrology and Water Resources.	3
BREE 327	Bio-Environmental Engineering.	3
ENTO 330	Insect Biology.	3
FDSC 200	Introduction to Food Science.	3
PLNT 310	Plant Propagation.	3
PLNT 312	Urban Horticulture.	3
PLNT 322	Greenhouse Management.	3
PLNT 358	Flowering Plant Diversity.	3
SOIL 535	Soil Ecology.	3

0-9 credits from the following [for students who apply to the Ordre des agronomes du Quebec]:

Course	Title	Credits
AGRI 330	Agricultural Legislation.	1
AGRI 410	Agrology Internship.	3
AGRI 430	Professional Practice in Agrology.	2
PLNT 430	Pesticides in Agriculture.	3

Electives

To meet the minimum credit requirement for the degree.

Environmental Engineering Minor (B.Eng.)

The Minor program consists of 21 credits in courses that are environment related. This requires the careful selection of complementary courses to permit Bioresource Engineering students to obtain this Minor with a minimum of 12 additional credits.

The Environmental Engineering Minor is administered by the Faculty of Engineering, Department of Civil Engineering (see the program page, Environmental Engineering Minor (B.Eng.) (21 credits) (p. 538), for more information).

Courses Available in the Faculty of Agricultural and Environmental Sciences (Partial Listing)

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources.	3
BREE 322	Management of Organic Residue	3
BREE 416	Engineering for Land Development.	3
BREE 518	Ecological Engineering.	3
MICR 331	Microbial Ecology.	3

For academic advising, please consult [mcgill.ca/macdonald/studentinfo/advising](http://www.mcgill.ca/macdonald/studentinfo/advising).

International Agriculture Minor (B.Sc.(Ag.Env.Sc.)) (24 credits)

Offered by: Agricultural & Env.Sc.-Dean (Faculty of Agricultural and Environmental Sciences)

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 24

Program Description

Students enter this minor to acquire a global and applied understanding of agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in the developing world. This program provides students with a combination of coursework at McGill together with a hands-on experience in a developing country, meeting locals and attending courses with McGill professors and/or local instructors. The costs of these field experiences may vary. The field experience (semester, short course or internship) includes developing projects in local communities, observing subsistence agriculture in situ and participating in various activities which contribute to sensitizing the students to the challenges that developing countries face. Students study water resources, sustainable development, nutrition, planning and development, and a host of other fascinating topics, allowing them to sharpen their skills for future career opportunities.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Complementary Courses (18 credits)

Students select 18 credits from either Option A or Option B

Option A

18 credits selected from:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 499	Agricultural Development Internship.	3
BREE 510	Watershed Systems Management.	3
ENVB 437	Assessing Environmental Impact.	3
FDSC 525	Food Quality Assurance.	3
NUTR 501	Nutrition in the Majority World.	3
PARA 410	Environment and Infection.	3
PARA 515	Water, Health and Sanitation.	3
PLNT 200	Introduction to Crop Science	3

Option B

15 credits from any of the McGill Field Study Semesters:

Africa Field Study Semester

Barbados Field Study Semester

Barbados Interdisciplinary Tropical Studies Field Semester

Panama Field Study Semester

Plus 3 credits from the list in Option A

Foundation Program - French (B.A.) (30 credits)

Offered by: Arts - Dean's Office

Degree: Bachelor of Arts

Program credit weight: 30

Program Requirements

The Bachelor of Arts Foundation Year is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits in one of two program options. In the "En français" or French option, students choose up to 18 credits from a variety of courses conducted in French. These credits may be comprised wholly of language courses, wholly of substantive content courses conducted in French, or a combination of the two.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Core Requirement (18 credits)

Based on their proficiency in French, students select 18 credits from the courses below in French Language and Literature and French as a Second Language.

French Language and Literature Courses (FREN)

Expand allContract all

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 231	Linguistique française.	3
FREN 239	Stylistique comparée.	3
FREN 245	Grammaire normative.	3

French as a Second Language (FRSL)

Depending on their level of proficiency, students may include a maximum of 12 credits of intensive French language courses. An intensive language course is a 6 credit term course. Students at the introductory level must take at least 6 credits in French in their Foundation/Foundation year but may be permitted to complete the remaining core requirement credits in year U1.

Expand allContract all

Course	Title	Credits
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 103	Near Beginners French.	3
FRSL 104	Corrective French Pronunciation.	3
FRSL 105	Intensive Beginners French.	6
FRSL 206	Elementary French.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 208	Intensive Elementary French.	6
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
FRSL 212	Oral and Written French 1.	3

FRSL 215	Oral and Written French 1 - Intensive.	6
FRSL 302	Listening Comprehension and Oral Expression 1.	3
FRSL 303	Listening Comprehension and Oral Expression 2.	3
FRSL 321D1	Oral and Written French 2.	3
FRSL 321D2	Oral and Written French 2.	3
FRSL 322	Oral and Written French 2.	3
FRSL 325	Oral and Written French 2 - Intensive.	6
FRSL 332	Intermediate French: Grammar 01.	3
FRSL 333	Intermediate French: Grammar 02.	3
FRSL 407	Compréhension et expression orales.	3
FRSL 408	Français oral: Textes et expressions.	3
FRSL 431D1	Français fonctionnel avancé.	3
FRSL 431D2	Français fonctionnel avancé.	3
FRSL 432	Français fonctionnel.	3
FRSL 445	Français fonctionnel, écrit 1.	3
FRSL 446	Français fonctionnel, écrit 2.	3
FRSL 449	Le français des médias.	3
FRSL 455	Grammaire et création.	3

Substantive Content Courses Taught in French

Some subject area courses or "substantive content courses" are taught in French. Some courses may be offered in French and English in alternate years. POLI 226 La vie politique québécoise. listed below is such a course. When taught in French, such courses may be counted toward this program.

Expand allContract all

Course	Title	Credits
POLI 226	La vie politique québécoise.	3

Remaining Credits (12 credits)

Students select the remaining credits (normally 12) for their Foundation/Foundation year from a list of approved courses for Arts Foundation/Foundation Year students. This list is found with requirements for the Foundation/Foundation Year - General option on the Arts OASIS website at: <http://www.mcgill.ca/oasis/>.

Foundation Program - General (B.A.) (30 credits)

Offered by: Arts - Dean's Office

Degree: Bachelor of Arts

Program credit weight: 30

Program Requirements

The Bachelor of Arts Foundation Year is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits. In the General option, students develop their own program of study using courses from the social sciences, humanities, languages, and/or math and sciences.

This 30-credit option has a core requirement of 18 credits completed by selecting 6 credits in each of three of the four Arts subject categories: social sciences, humanities, languages, and/or mathematics and science. Students select 12 additional credits from approved courses for Foundation Year students based on their interests. A maximum of 18 credits may be taken in any one area and a maximum of 12 credits may be taken in the courses offered by any one department. For more information, see the Arts OASIS website for newly admitted Foundation/Foundation Year students at: <http://www.mcgill.ca/oasis>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Core Requirement (18 credits)

18 credits with 6 credits in each of three of the four Arts categories: social sciences, humanities, languages, and mathematics and science.

The course lists below are organized by Arts category and include only courses approved by the offering department for Foundation/Foundation Year (UO) students. Students may use these lists to plan their course selection.

Approved Courses - Social Sciences

For a list of the approved Arts Foundation/Foundation Year (UO) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: A few courses may be listed in both Social Sciences and in another category. For example, CANS 200 Understanding Canada. and ISLA 210 Muslim Societies. are considered to be both Social Sciences and Humanities courses.

Approved Courses - Humanities

For a list of the approved Arts Foundation/Foundation Year (UO) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: A few courses may be listed in both Humanities and in another category. For example, CANS 200 Understanding Canada. is considered to be both Humanities and Social Science courses.

Approved Courses - Languages

For a list of the approved Arts Foundation/Foundation Year (UO) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: When registering for 'D1' courses, you MUST also register for the second part 'D2' of this full-year course.

Note: No more than one language should be taken at the introductory level during the Foundation/Foundation year. Students with prior knowledge of the language may take higher-level courses with permission from the department.

Note: A few courses may be listed in both Languages and in another category.

Approved Courses - Mathematics and Sciences

For a list of the approved Arts Foundation/Foundation Year (UO) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: GEOG 205 Global Change: Past, Present and Future. is listed as a Mathematics and Sciences course as well as a Social Sciences course.

Anthropology Minor Concentration (B.A.) (18 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Anthropology permits students to explore the development and diversity of human beings and human society and culture through courses in human evolution, prehistoric archaeology, and socio-cultural anthropology. Students may include courses in all of these fields, or may focus on one or two.

This program may be expanded to the Major Concentration Anthropology.

Complementary Courses (18 credits)

6-9 credits from 200-level courses in Anthropology.

9-12 credits from any 300-, or 400-, or 500-level courses in Anthropology (only 3 credits of which can be at the 400 or 500 level. Only 1 Special Topic course can be taken.)

Anthropology Major Concentration (B.A.) (36 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major concentration is especially appropriate for students who aim to take courses across several sub-disciplinary or topical concentrations, and for whom specialization is premature. There are no prerequisites for admission to the Major Concentration Anthropology. Students are encouraged to take a course in quantitative methods (listed under the Honours program), but this course cannot count as part of this concentration.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

200 Level

6 credits selected from 200-level courses in Anthropology (ANTH).

Core (350 Level)

6 credits from:

(Note: These are restricted to students in any Anthropology program with U2 standing or above.)

Expand allContract all

Course	Title	Credits
ANTH 352	History of Anthropological Theory.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 357	Archaeological Methods.	3
ANTH 358	The Process of Anthropological Research.	3
ANTH 359	History of Archaeological Theory.	3

400 Level

6 credits, two 400-level Anthropology (ANTH) courses.

Undergraduate Level

18 credits of additional undergraduate-level Anthropology courses of which no more than 6 credits may be at the 200 level.

Anthropology Honours (B.A.) (60 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours Program in Anthropology provides a greater focus on Anthropology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (6 credits)

Expand all	Contract all	Course	Title	Credits
		ANTH 490	Honours Thesis.	6

Complementary Courses (54 credits)

Honours students select their courses as specified below. Students may take a maximum of 9 credits at the 300 and 400 level offered by other departments if they are directly related to their focus of study within Anthropology and are approved by their departmental program adviser.

200/300 Level

A maximum of 36 credits of 200- and 300-level courses (of which a maximum of 21 credits may be at the 200 level and a maximum of 6 credits may be Special Topic courses.)

Core (350 Level)

Select a minimum of 9 credits of core courses at the 350 level selected from:

Expand all	Contract all	Course	Title	Credits
		ANTH 352	History of Anthropological Theory.	3
		ANTH 355	Theories of Culture and Society.	3
		ANTH 357	Archaeological Methods.	3
		ANTH 358	The Process of Anthropological Research.	3
		ANTH 359	History of Archaeological Theory.	3

400/500 Level

A minimum of 9 credits of Anthropology (ANTH) courses at the 400- or 500-level, and a maximum of 3 credits can be a Special Topic course.

Anthropology Joint Honours Component (B.A.) (36 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students interested in Joint Honours should consult an advisor in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the programs selected.

Students who wish to study at the Honours level in two disciplines can combine the Joint Honours Program component in Anthropology with one in any other Arts discipline.

The Joint Honours thesis topic should be arranged by consultation with an advisor in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

Joint Honours students must maintain a GPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

The Joint Honours thesis should be determined in consultation with advisers from both Joint Honours components programs. Normally, the thesis is 6 credits of coursework with 3 credits applying to each Joint Honours component.

Expand allContract all

Course	Title	Credits
ANTH 491	Joint Honours Thesis.	3

Complementary Courses (33 credits)

200 Level

A maximum of 12 credits of Anthropology (ANTH) courses at the 200 level.

300 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 300 level (only one 3-credit Special Topic course at the 300 level is permitted).

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

Expand allContract all

Course	Title	Credits
ANTH 352	History of Anthropological Theory.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 357	Archaeological Methods.	3
ANTH 358	The Process of Anthropological Research.	3
ANTH 359	History of Archaeological Theory.	3

400/500 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 400 or 500 level (maximum of one 3-credit Special Topic course at the 400 level).

Art History Minor Concentration (B.A.) (18 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Art History provides an introduction to the study of diverse artistic traditions from ancient to contemporary times. It is expandable to the Major Concentration Art History.

Complementary Courses (18 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline.

Expand allContract all

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3

3-15 complementary courses chosen from among departmental course offerings. At least 9 of these credits must be at the 300 level or above.

Note: Courses in studio practice cannot be counted towards the Minor Concentration.

Expand allContract all

Course	Title	Credits	Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.
ARTH 200	Introduction to Art History 1.	3	
ARTH 202	Introduction to Contemporary Art.	3	
ARTH 204	Introduction to Medieval Art and Architecture.	3	
ARTH 205	Introduction to Modern Art.	3	
ARTH 207	Introduction Early Modern Art 1400-1700.	3	
ARTH 209	Introduction to Ancient Art and Architecture.	3	
ARTH 215	Introduction to East Asian Art.	3	
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3	
ARTH 225	Introduction to Seventeenth - Century Art.	3	
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3	
ARTH 300	Canadian Art to 1914.	3	
ARTH 302	Aspects of Canadian Art.	3	
ARTH 305	Methods in Art History.	3	
ARTH 310	Postcolonialism.	3	
ARTH 314	The Medieval City.	3	
ARTH 315	Indigenous Art and Culture.	3	
ARTH 321	Visual Culture of the Dutch Republic.	3	
ARTH 323	Realism and Impressionism.	3	
ARTH 325	Visual Culture Renaissance Venice.	3	
ARTH 326	Studies in Manuscript and Print Culture.	3	
ARTH 336	Art Now.	3	
ARTH 339	Critical Issues - Contemporary Art.	3	
ARTH 352	Feminism in Art and Art History.	3	
ARTH 353	Selected Topics in Art History 1.	3	
ARTH 354	Selected Topics Art History 2.	3	
ARTH 357	Early Chinese Art.	3	
ARTH 360	Studies in the Photographic.	3	
ARTH 368	Studies in Northern Renaissance Art 01.	3	
ARTH 411	Canadian Art and Race.	3	
ARTH 420	Selected Topics in Art and Architecture 1.	3	
ARTH 421	Selected Topics in Art and Architecture 2.	3	
ARTH 422	Selected Topics in Art and Architecture 3.	3	
ARTH 425	Arts of Medieval Spain.	3	
ARTH 430	Concepts - Discipline Art History.	3	
ARTH 435	Early Modern Visual Culture.	3	
ARTH 440	The Body and Visual Culture.	3	
ARTH 447	Independent Research Course.	3	
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3	
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3	
ARTH 490	Museum Internship	3	
ARTH 501	Advanced Topics in Art History and Visual Culture.	3	
ARTH 502	Advanced Topics in Art and Architectural History.	3	

Communication Studies Minor Concentration (Minor) (18 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Communication Studies provides undergraduate students with a critical understanding of the role that communications media and communication technologies play in a society. It offers students intellectually challenging and innovative instruction in key traditions of Communications and Media Studies and new theoretical and methodological practices being developed in the field. The courses included in the program focus on issues of the relationship between communication, democracy and urban life, the social life of communication technologies, the historical development and transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
COMS 210	Introduction to Communication Studies.	3

Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

Expand allContract all

Course	Title	Credits
COMS 200	History of Communication.	3
COMS 230	Communication and Democracy.	3
COMS 300	Media and Modernity in the 20th Century.	3
COMS 301	Core Concepts in Critical Theory.	3
COMS 310	Media and Feminist Studies.	3
COMS 320	Media and Empire.	3
COMS 330	Media in Cultural Life.	3
COMS 340	New Media.	3

COMS 350	Sound Culture.	3	21-33 complementary credits chosen from among departmental course offerings as follows:
COMS 354	Media Studies of Crime.	3	
COMS 355	Media Governance.	3	
COMS 361	Selected Topics Communication Studies 1.	3	
COMS 362	Selected Topics Communication Studies 2.	3	
COMS 400	Critical Theory Seminar.	3	
COMS 410	Cultures in Visualization.	3	
COMS 411	Disability, Technology and Communication.	3	
COMS 425	Urban Culture and Everyday Life.	3	
COMS 435	Advanced Issues in Media Governance.	3	
COMS 490	Special Topics in History and Theory of Media.	3	
COMS 491	Special Topics in Communications Studies.	3	
COMS 492	Power, Difference and Justice.	3	
COMS 495	Directed Reading.	3	
COMS 497	Independent Study.	3	
COMS 510	Canadian Broadcasting Policy.	3	

Art History Major Concentration (B.A.) (36 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

Expand allContract all

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3
ARTH 360	Studies in the Photographic.	3
ARTH 368	Studies in Northern Renaissance Art 01.	3
ARTH 411	Canadian Art and Race.	3
ARTH 420	Selected Topics in Art and Architecture 1.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 422	Selected Topics in Art and Architecture 3.	3
ARTH 425	Arts of Medieval Spain.	3
ARTH 430	Concepts - Discipline Art History.	3
ARTH 435	Early Modern Visual Culture.	3
ARTH 440	The Body and Visual Culture.	3
ARTH 447	Independent Research Course.	3

ARTH 473	Studies in 17th and Early 18th Century Art 04.	3
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3
ARTH 490	Museum Internship	3
ARTH 501	Advanced Topics in Art History and Visual Culture.	3
ARTH 502	Advanced Topics in Art and Architectural History.	3

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

Expand allContract all

Course	Title	Credits
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
PHIL 336	Aesthetics.	3
PHIL 436	Aesthetics 2.	3

Art History Honours (B.A.) (54 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The Honours Art History program provides in-depth training, with emphasis on art historical methods and research, while allowing students flexibility in choosing courses that match their academic needs and interests. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for this program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ARTH 400	Selected Methods in Art History.	3
ARTH 401	Honours Research Paper.	3

Complementary Courses (48 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

Expand allContract all

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3

33-45 credits of complementary courses chosen from among departmental course offerings as follows:

- A maximum of 15 credits may be at the 200 level.
- A minimum of 6 credits must be at the 400 level or above (other than ARTH 490 Museum Internship Museum Internship).
- 6 credits should be taken in a language other than English or in courses in one or two related disciplines selected with the written approval of the academic adviser.

Expand allContract all

Course	Title	Credits
ARTH 200	Introduction to Art History 1.	3
ARTH 202	Introduction to Contemporary Art.	3
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
ARTH 215	Introduction to East Asian Art.	3
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 225	Introduction to Seventeenth - Century Art.	3
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3
ARTH 300	Canadian Art to 1914.	3
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 310	Postcolonialism.	3
ARTH 314	The Medieval City.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 321	Visual Culture of the Dutch Republic.	3
ARTH 323	Realism and Impressionism.	3
ARTH 325	Visual Culture Renaissance Venice.	3
ARTH 326	Studies in Manuscript and Print Culture.	3
ARTH 336	Art Now.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 352	Feminism in Art and Art History.	3
ARTH 353	Selected Topics in Art History 1.	3

ARTH 354	Selected Topics Art History 2.	3	in addition a program GPA of 3.50 for admission into the program and the awarding of Honours
ARTH 357	Early Chinese Art.	3	
ARTH 360	Studies in the Photographic.	3	
ARTH 368	Studies in Northern Renaissance Art 01.	3	
ARTH 411	Canadian Art and Race.	3	
ARTH 420	Selected Topics in Art and Architecture 1.	3	
ARTH 421	Selected Topics in Art and Architecture 2.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
ARTH 422	Selected Topics in Art and Architecture 3.	3	
ARTH 425	Arts of Medieval Spain.	3	
ARTH 430	Concepts - Discipline Art History.	3	
ARTH 435	Early Modern Visual Culture.	3	
ARTH 440	The Body and Visual Culture.	3	
ARTH 447	Independent Research Course.	3	
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3	
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3	
ARTH 490	Museum Internship	3	
ARTH 501	Advanced Topics in Art History and Visual Culture.	3	3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:
ARTH 502	Advanced Topics in Art and Architectural History.	3	

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

Expand allContract all

Course	Title	Credits	
ARCH 250	Architectural History 1.	3	15-27 credits chosen from among departmental course offerings as follows:
ARCH 251	Architectural History 2.	3	
PHIL 336	Aesthetics.	3	
PHIL 436	Aesthetics 2.	3	

Art History Joint Honours Component (B.A.) (36 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all		
Course	Title	Credits
ARTH 400	Selected Methods in Art History.	3
ARTH 401	Honours Research Paper.	3

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

Expand allContract all		
Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3

15-27 credits chosen from among departmental course offerings as follows:

- A maximum of 12 credits may be at the 200 level.
- A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

Expand allContract all

Course	Title	Credits
ARTH 200	Introduction to Art History 1.	3
ARTH 202	Introduction to Contemporary Art.	3
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
ARTH 215	Introduction to East Asian Art.	3
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 225	Introduction to Seventeenth - Century Art.	3
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3
ARTH 300	Canadian Art to 1914.	3
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 310	Postcolonialism.	3

ARTH 314	The Medieval City.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 321	Visual Culture of the Dutch Republic.	3
ARTH 323	Realism and Impressionism.	3
ARTH 325	Visual Culture Renaissance Venice.	3
ARTH 326	Studies in Manuscript and Print Culture.	3
ARTH 336	Art Now.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 352	Feminism in Art and Art History.	3
ARTH 353	Selected Topics in Art History 1.	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 357	Early Chinese Art.	3
ARTH 360	Studies in the Photographic.	3
ARTH 368	Studies in Northern Renaissance Art 01.	3
ARTH 411	Canadian Art and Race.	3
ARTH 420	Selected Topics in Art and Architecture 1.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 422	Selected Topics in Art and Architecture 3.	3
ARTH 425	Arts of Medieval Spain.	3
ARTH 430	Concepts - Discipline Art History.	3
ARTH 435	Early Modern Visual Culture.	3
ARTH 440	The Body and Visual Culture.	3
ARTH 447	Independent Research Course.	3
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3
ARTH 490	Museum Internship	3
ARTH 501	Advanced Topics in Art History and Visual Culture.	3
ARTH 502	Advanced Topics in Art and Architectural History.	3

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

Expand allContract all

Course	Title	Credits
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
PHIL 336	Aesthetics.	3
PHIL 436	Aesthetics 2.	3

Computer Science Minor Concentration (B.A.) (18 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Computer Science is designed to provide the basics of computer science principles, and it make be taken in conjunction with any program in the Faculty of Arts.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3

¹ Students who have taken the equivalent of COMP 202 Foundations of Programming prior to their McGill studies should replace it with an additional Computer Science Complementary course.

Complementary Courses (9-15 credits)

Students are strongly encouraged to talk to an advisor of the School before choosing their complementary courses to ensure they follow an approved course sequence.

6 credits from*:

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3

* Students who have taken equivalent courses in CEGEP or elsewhere, or have advanced placement will be granted Advanced Standing and do not need to take these courses. They should replace the credits of the exempted courses with elective courses.

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 396 Undergraduate Research Project., COMP 400 Project in Computer Science, COMP 401 Project in Biology and Computer Science., COMP 402 Honours Project in Computer Science and Biology., COMP 480 Independent Studies in Computer Science.

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

Computer Science Supplementary Minor Concentration (B.A.) (18 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

The Supplementary Minor Concentration may be taken only by students registered in the Major Concentration Computer Science or the Major Concentration Software Engineering. There may be no overlap in credits taken for this Supplementary Minor Concentration and the Major Concentration Computer Science/ Software Engineering. Taken together, these constitute a program very close to the Major Computer Science offered by the Faculty of Science. Students must get their selection of courses approved by an Academic Adviser in the School of Computer Science.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs" for the Multi-track System options.

Complementary Courses (18 credits)

18 credits selected from Computer Science (COMP) courses at the 300 level or above excluding COMP 396 Undergraduate Research Project..

Students may also select a maximum of 3 credits of MATH courses from the list below.

Expand allContract all

Course	Title	Credits
MATH 223	Linear Algebra.	3
MATH 318	Mathematical Logic.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 340	Discrete Mathematics.	3

Computer Science Major Concentration (B.A.) (36 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major

Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2. (or their equivalents) should be completed prior to taking courses in this program.

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

¹

Students who have sufficient knowledge in programming do not need to take COMP 202 Foundations of Programming. and should replace it with an additional computer science complementary course.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from each of the groups A, B, C, and D:

Group A

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

Group B

Expand allContract all

Course	Title	Credits	Degree Requirements – B.A. students
MATH 223	Linear Algebra.	3	To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.
MATH 318	Mathematical Logic.	3	
MATH 340	Discrete Mathematics.	3	We recommend that students consult an Arts OASIS advisor for degree planning.

Group C

Expand allContract all

Course	Title	Credits	Course	Title	Credits
COMP 330	Theory of Computation.	3	COMP 202	Foundations of Programming. ¹	3
COMP 350	Numerical Computing.	3	COMP 206	Introduction to Software Systems.	3
COMP 360	Algorithm Design.	3	COMP 250	Introduction to Computer Science.	3

Group D

Expand allContract all

Course	Title	Credits	Course	Title	Credits
COMP 302	Programming Languages and Paradigms.	3	COMP 251	Algorithms and Data Structures.	3
COMP 303	Software Design.	3	COMP 273	Introduction to Computer Systems.	3

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 Logic and Computability, and COMP courses at the 300 level or above (except COMP 396 Undergraduate Research Project.).

Software Engineering Major Concentration (B.A.) (36 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering". Arts students that are interested in further study in Computer Science can combine the Major Concentration in Software Engineering with the Supplementary Minor Concentration in Computer Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for the Multi-track System options.

MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2. (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 421	Database Systems.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

¹ Note: Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming, but can replace it with an additional Computer Science complementary course.

Complementary Courses (6 credits)

At least 6 credits from:

Course	Title	Credits
ECSE 326	Software Requirements Engineering.	3
ECSE 437	Software Delivery.	3
ECSE 539	Advanced Software Language Engineering.	4

or any COMP courses at the 300 level or above, excluding COMP 396 Undergraduate Research Project..

Suggested COMP courses are:

Course	Title	Credits
COMP 322	Introduction to C++.	1
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3

East Asian Language and Literature Minor Concentration (B.A.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 Credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits from the following:

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

Expand allContract all

Course	Title	Credits
EAST 220D1	First Level Korean.	4.5
EAST 220D2	First Level Korean.	4.5
EAST 230D1	First Level Chinese.	4.5
EAST 230D2	First Level Chinese.	4.5
EAST 240D1	First Level Japanese.	4.5
EAST 240D2	First Level Japanese.	4.5
EAST 241	Japanese Writing Beginners 1.	3
EAST 242	Japanese Writing Beginners 2.	3
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5

EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3
EAST 440D2	Third Level Japanese.	3
EAST 530D1	Fourth Level Chinese.	3
EAST 530D2	Fourth Level Chinese.	3
EAST 533	Classical Chinese 1.	3
EAST 535	Chinese for Business 1.	3
EAST 536	Chinese for Business 2.	3
EAST 540D1	Fourth Level Japanese.	3
EAST 540D2	Fourth Level Japanese.	3

East Asian Studies (EAST)

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

Course	Title	Credits
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3
EAST 377	Topics: Transnational Asian Culture.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 453	Topics: Chinese Literature.	3

EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3
EAST 462	Japan in Asia.	3
EAST 464	Image, Text, Performance.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 468	Science and Technology: Asia.	3
EAST 477	Media and Environment in Asia.	3
EAST 478	Topics: Korean Film and Media.	3
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 493	Special Topics: East Asian Studies 1.	3
EAST 494	Special Topics: East Asian Studies 2.	3
EAST 501	Advanced Topics in Japanese Studies 1.	3
EAST 502	Advanced Topics in Japanese Studies 2.	3
EAST 503	Advanced Topics in Chinese Studies 1.	3
EAST 504	Advanced Topics in Chinese Studies 2.	3
EAST 505	Advanced Topics in Korean Studies.	3
EAST 515	Seminar: Beyond Orientalism.	3
EAST 525	Critical Area Studies in Asia.	3
EAST 550	Classical Chinese Poetry Themes and Genres.	3
EAST 551	Technologies of Self in Early China.	3
EAST 559	Advanced Topics: Chinese Literature.	3
EAST 564	Structures of Modernity: Asia.	3
EAST 569	Advanced Topics: Japanese Literature.	3

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

Expand all Contract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3
EAST 279	Introduction to Film History.	3
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 311	Rebellion and Revolution in Modern China	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3
EAST 377	Topics: Transnational Asian Culture.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 402	Age of Samurai	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 445	Late Imperial China	3
EAST 453	Topics: Chinese Literature.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3
EAST 462	Japan in Asia.	3
EAST 464	Image, Text, Performance.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 468	Science and Technology: Asia.	3
EAST 477	Media and Environment in Asia.	3

East Asian Cultural Studies Minor Concentration (B.A.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

Expand all Contract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

EAST 478	Topics: Korean Film and Media.	3
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 493	Special Topics: East Asian Studies 1.	3
EAST 494	Special Topics: East Asian Studies 2.	3
EAST 501	Advanced Topics in Japanese Studies 1.	3
EAST 502	Advanced Topics in Japanese Studies 2.	3
EAST 503	Advanced Topics in Chinese Studies 1.	3
EAST 504	Advanced Topics in Chinese Studies 2.	3
EAST 505	Advanced Topics in Korean Studies.	3
EAST 515	Seminar: Beyond Orientalism.	3
EAST 525	Critical Area Studies in Asia.	3
EAST 550	Classical Chinese Poetry Themes and Genres.	3
EAST 559	Advanced Topics: Chinese Literature.	3
EAST 564	Structures of Modernity: Asia.	3
EAST 569	Advanced Topics: Japanese Literature.	3
LLCU 279	Introduction to Film History.	3

Anthropology (ANTH)

Expand allContract all

Course	Title	Credits
ANTH 331	Prehistory of East Asia.	3
ANTH 500	Chinese Diversity and Diaspora.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 208	Introduction to East Asian History.	3
HIST 218	Modern East Asian History.	3
HIST 308	Formation of Chinese Tradition.	3
HIST 338	Twentieth-Century China.	3
HIST 358	China's Middle Empires.	3
HIST 439	History of Women in China.	3
HIST 441	Topics: Culture and Ritual in China.	3
HIST 442	Asian Diaspora: Chinese Overseas.	3
HIST 443	Topics: Modern Japan.	3
HIST 445	Late Imperial China.	3
HIST 508	The Art of War in China.	3
HIST 568D1	Topics in Chinese History.	3
HIST 568D2	Topics in Chinese History.	3
HIST 578D1	Seminar in Japanese History.	3
HIST 578D2	Seminar in Japanese History.	3

Management (ORGB)

Expand allContract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Political Science (POLI)

Expand allContract all

Course	Title	Credits
POLI 349	Foreign Policy: Asia.	3

Religious Studies (RELG)

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 344	Mahayana Buddhism.	3
RELG 352	Japanese Religions: History and Thought.	3
RELG 354	Chinese Religions.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3

East Asian Language Supplementary Minor Concentration (B.A.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

East Asian Studies Major Concentration (B.A.) (36 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in East Asian Studies provides in-depth training in the humanistic studies of East Asia (including language, society, literature, history, media, religion, politics, and art). The program includes core survey on China, Japan, and Korea.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

0-3 credits from the following:

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

Expand allContract all

Course	Title	Credits
EAST 220D1	First Level Korean.	4.5
EAST 220D2	First Level Korean.	4.5
EAST 230D1	First Level Chinese.	4.5
EAST 230D2	First Level Chinese.	4.5
EAST 240D1	First Level Japanese.	4.5
EAST 240D2	First Level Japanese.	4.5
EAST 241	Japanese Writing Beginners 1.	3
EAST 242	Japanese Writing Beginners 2.	3
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5

EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3
EAST 440D2	Third Level Japanese.	3
EAST 530D1	Fourth Level Chinese.	3
EAST 530D2	Fourth Level Chinese.	3
EAST 533	Classical Chinese 1.	3
EAST 535	Chinese for Business 1.	3
EAST 536	Chinese for Business 2.	3
EAST 540D1	Fourth Level Japanese.	3
EAST 540D2	Fourth Level Japanese.	3

East Asian Literature, Culture and Society (21-24 credits)

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3
EAST 279	Introduction to Film History.	3
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 328	Archaeology East Asian Empires.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3

EAST 375	Korean Media and Popular Culture.	3	HIST 308	Formation of Chinese Tradition.	3
EAST 377	Topics: Transnational Asian Culture.	3	HIST 338	Twentieth-Century China.	3
EAST 388	Asian Migrations and Diasporas.	3	HIST 358	China's Middle Empires.	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3	HIST 439	History of Women in China.	3
			HIST 441	Topics: Culture and Ritual in China.	3
EAST 453	Topics: Chinese Literature.	3	HIST 442	Asian Diaspora: Chinese Overseas.	3
EAST 445	Late Imperial China	3	HIST 443	Topics: Modern Japan.	3
EAST 454	Topics: Chinese Cinema.	3	HIST 445	Late Imperial China.	3
EAST 461	Inventing Modern Japanese Novel.	3	HIST 508	The Art of War in China.	3
EAST 462	Japan in Asia.	3	HIST 568D1	Topics in Chinese History.	3
EAST 464	Image, Text, Performance.	3	HIST 568D2	Topics in Chinese History.	3
EAST 467	Topics: Japanese Cinema.	3	HIST 578D1	Seminar in Japanese History.	3
EAST 468	Science and Technology: Asia.	3	HIST 578D2	Seminar in Japanese History.	3
EAST 477	Media and Environment in Asia.	3			
EAST 478	Topics: Korean Film and Media.	3			
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3			
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3			
EAST 493	Special Topics: East Asian Studies 1.	3			
EAST 494	Special Topics: East Asian Studies 2.	3			
EAST 501	Advanced Topics in Japanese Studies 1.	3			
EAST 502	Advanced Topics in Japanese Studies 2.	3			
EAST 503	Advanced Topics in Chinese Studies 1.	3			
EAST 504	Advanced Topics in Chinese Studies 2.	3			
EAST 505	Advanced Topics in Korean Studies.	3			
EAST 515	Seminar: Beyond Orientalism.	3			
EAST 525	Critical Area Studies in Asia.	3			
EAST 550	Classical Chinese Poetry Themes and Genres.	3			
EAST 551	Technologies of Self in Early China.	3			
EAST 559	Advanced Topics: Chinese Literature.	3			
EAST 564	Structures of Modernity: Asia.	3			
EAST 569	Advanced Topics: Japanese Literature.	3			
LLCU 279	Introduction to Film History.	3			
Anthropology (ANTH)					
Expand allContract all					
Course	Title		Credits		
ANTH 331	Prehistory of East Asia.	3			
ANTH 500	Chinese Diversity and Diaspora.	3			
Geography (GEOG)					
Expand allContract all					
Course	Title		Credits		
GEOG 408	Geography of Development.	3			
History (HIST)					
Expand allContract all					
Course	Title		Credits		
HIST 208	Introduction to East Asian History.	3			
HIST 218	Modern East Asian History.	3			
Management (ORGB)					
Expand allContract all					
Course	Title		Credits		
ORGB 380	Cross Cultural Management.	3			
Political Science (POLI)					
Expand allContract all					
Course	Title		Credits		
POLI 349	Foreign Policy: Asia.	3			
Religious Studies (RELG)					
Expand allContract all					
Course	Title		Credits		
RELG 253	Religions of East Asia.	3			
RELG 264	Introductory Tibetan 1.	3			
RELG 265	Introductory Tibetan 2.	3			
RELG 344	Mahayana Buddhism.	3			
RELG 352	Japanese Religions: History and Thought.	3			
RELG 354	Chinese Religions.	3			
RELG 364	Intermediate Tibetan 1.	3			
RELG 365	Intermediate Tibetan 2.	3			
RELG 451	Zen Buddhism: Poetry and Art.	3			
RELG 464	Advanced Tibetan 1.	3			
RELG 465	Advanced Tibetan 2.	3			
East Asian Studies Honours (B.A.) (60 credits)					
Offered by: East Asian Studies (Faculty of Arts)					
Degree: Bachelor of Arts					
Program credit weight: 60					
Program Description					
The B.A.; Honours in East Asian Studies provides in-depth training in the humanistic studies of East Asia (including language, society, literature, history, media, religion, politics, and art). The program includes core survey on China, Japan, and Korea.					

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Honours thesis:

Expand allContract all

Course	Title	Credits
EAST 498D1	Honours Thesis: East Asian Studies.	3
EAST 498D2	Honours Thesis: East Asian Studies.	3

Complementary Courses (54 credits)

Introduction to East Asian Culture

3-6 credits from:

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3

East Asian Language

24 credits of an East Asian language selected from the list below.

Note: Admission to language courses is subject to placement tests.

Expand allContract all

Course	Title	Credits
EAST 220D1	First Level Korean.	4.5
EAST 220D2	First Level Korean.	4.5
EAST 230D1	First Level Chinese.	4.5
EAST 230D2	First Level Chinese.	4.5
EAST 240D1	First Level Japanese.	4.5
EAST 240D2	First Level Japanese.	4.5
EAST 241	Japanese Writing Beginners 1.	3
EAST 242	Japanese Writing Beginners 2.	3
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5

EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3
EAST 440D2	Third Level Japanese.	3
EAST 530D1	Fourth Level Chinese.	3
EAST 530D2	Fourth Level Chinese.	3
EAST 533	Classical Chinese 1.	3
EAST 540D1	Fourth Level Japanese.	3
EAST 540D2	Fourth Level Japanese.	3

East Asian Literature, Culture and Society

24 credits of courses in East Asian Literature, Culture and Society.

East Asian Studies (EAST)

Expand allContract all

Course	Title	Credits
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3
EAST 377	Topics: Transnational Asian Culture.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 453	Topics: Chinese Literature.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3

EAST 462	Japan in Asia.	3	HIST 568D2	Topics in Chinese History.	3
EAST 464	Image, Text, Performance.	3	HIST 578D1	Seminar in Japanese History.	3
EAST 467	Topics: Japanese Cinema.	3	HIST 578D2	Seminar in Japanese History.	3
EAST 468	Science and Technology: Asia.	3			
EAST 477	Media and Environment in Asia.	3			
EAST 478	Topics: Korean Film and Media.	3			
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3			
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3			
EAST 493	Special Topics: East Asian Studies 1.	3			
EAST 494	Special Topics: East Asian Studies 2.	3			
EAST 501	Advanced Topics in Japanese Studies 1.	3			
EAST 502	Advanced Topics in Japanese Studies 2.	3			
EAST 503	Advanced Topics in Chinese Studies 1.	3			
EAST 504	Advanced Topics in Chinese Studies 2.	3			
EAST 505	Advanced Topics in Korean Studies.	3			
EAST 515	Seminar: Beyond Orientalism.	3			
EAST 525	Critical Area Studies in Asia.	3			
EAST 550	Classical Chinese Poetry Themes and Genres.	3			
EAST 551	Technologies of Self in Early China.	3			
EAST 559	Advanced Topics: Chinese Literature.	3			
EAST 564	Structures of Modernity: Asia.	3			
EAST 569	Advanced Topics: Japanese Literature.	3			
Anthropology (ANTH)					
Expand allContract all					
Course	Title	Credits			
ANTH 331	Prehistory of East Asia.	3			
ANTH 500	Chinese Diversity and Diaspora.	3			

Geography (GEOG)

Expand allContract all

Course	Title	Credits
GEOG 408	Geography of Development.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 208	Introduction to East Asian History.	3
HIST 218	Modern East Asian History.	3
HIST 308	Formation of Chinese Tradition.	3
HIST 338	Twentieth-Century China.	3
HIST 358	China's Middle Empires.	3
HIST 439	History of Women in China.	3
HIST 441	Topics: Culture and Ritual in China.	3
HIST 442	Asian Diaspora: Chinese Overseas.	3
HIST 443	Topics: Modern Japan.	3
HIST 445	Late Imperial China.	3
HIST 508	The Art of War in China.	3
HIST 568D1	Topics in Chinese History.	3

Management (ORGB)

Expand allContract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Political Science (POLI)

Expand allContract all

Course	Title	Credits
POLI 349	Foreign Policy: Asia.	3

Religious Studies (RELG)

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 344	Mahayana Buddhism.	3
RELG 352	Japanese Religions: History and Thought.	3
RELG 354	Chinese Religions.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3

East Asian Studies Joint Honours Component (B.A.) (36 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours - East Asian Studies Component provides in-depth training in the humanistic studies of East Asia (including language, society, literature, history, media, religion, politics, and art). The program includes core survey on China, Japan, and Korea. and progresses to upper-level lectures and seminars that allow students to tailor an individualized program of study. Half of the coursework will be done in East Asian Studies and the other half in another program within the Faculty of the Arts.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand all Contract all

Course	Title	Credits
EAST 495D1	Joint Honours Thesis: East Asian Studies.	1.5
EAST 495D2	Joint Honours Thesis: East Asian Studies.	1.5

Complementary Courses (33 credits)

Introduction to East Asian Culture

3-6 credits from:

Expand all Contract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

0-3 credits selected from:

Expand all Contract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

Expand all Contract all

Course	Title	Credits
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5
EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3
EAST 440D2	Third Level Japanese.	3
EAST 530D1	Fourth Level Chinese.	3
EAST 530D2	Fourth Level Chinese.	3
EAST 533	Classical Chinese 1.	3
EAST 540D1	Fourth Level Japanese.	3
EAST 540D2	Fourth Level Japanese.	3

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

Course	Title	Credits
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 311	Rebellion and Revolution in Modern China	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3
EAST 377	Topics: Transnational Asian Culture.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 402	Age of Samurai	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 445	Late Imperial China	3
EAST 453	Topics: Chinese Literature.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3
EAST 462	Japan in Asia.	3
EAST 464	Image, Text, Performance.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 468	Science and Technology: Asia.	3
EAST 477	Media and Environment in Asia.	3
EAST 478	Topics: Korean Film and Media.	3
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 493	Special Topics: East Asian Studies 1.	3
EAST 494	Special Topics: East Asian Studies 2.	3
EAST 501	Advanced Topics in Japanese Studies 1.	3

EAST 502	Advanced Topics in Japanese Studies 2.	3	Macroeconomic Analysis and Applications. or the 6 credit combination of (ECON 332 Macroeconomic Theory: Majors 1. and ECON 333 Macroeconomic Theory - Majors 2.) or (ECON 353 Macroeconomics - Honours 1. and ECON 354 Macroeconomics - Honours 2. can be credited to the Economics Minor. The combination of ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. and ECON 209 Macroeconomic Analysis and Applications. is allowed.
EAST 503	Advanced Topics in Chinese Studies 1.	3	
EAST 504	Advanced Topics in Chinese Studies 2.	3	
EAST 505	Advanced Topics in Korean Studies.	3	
EAST 515	Seminar: Beyond Orientalism.	3	
EAST 525	Critical Area Studies in Asia.	3	
EAST 550	Classical Chinese Poetry Themes and Genres.	3	
EAST 551	Technologies of Self in Early China.	3	
EAST 559	Advanced Topics: Chinese Literature.	3	
EAST 564	Structures of Modernity: Asia.	3	
EAST 569	Advanced Topics: Japanese Literature.	3	

Economics Minor Concentration (B.A.) (18 credits)

Offered by: Economics (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

The Minor Concentration in Economics provides a moderate level of specialization in Economics for students who usually are pursuing Major Concentrations or Honours Programs in other fields of study. It does, however, provide an option to switch to or add a Major Concentration in Economics. There is a special Minor for Management students.

Complementary Courses (18 credits)

18 credits, of which 6 credits must be from Group A and 12 credits from Group B.

Group A

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3

Group B

Economics courses with course numbers above ECON 208 Microeconomic Analysis and Applications. (excluding ECON 295 Macroeconomic Policy.), at least 6 credits of which must be at the 300, 400 or 500 level.

Program Notes:

Only one of ECON 208 Microeconomic Analysis and Applications. or ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. or ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours. can be credited to the Economics Minor. Only one of ECON 209

Special Minor in Economics for Management Students

Information on this Minor Concentration and its special restrictions is in the Desautels Faculty of Management website at www.mcgill.ca/desautels/programs/bcom/academics/areas-study/economics/min.... Students should consult with the advisers in both the Faculty of Management and the Department of Economics for advice on this minor concentration.

Economics Major Concentration (B.A.) (36 credits)

Offered by: Economics (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 36

Program Description

The Major Concentration in Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department. Students wishing to pursue this concentration need to consult the department's rules and regulations at: www.mcgill.ca/economics/undergraduates/majorminor.

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any majors adviser; consult the Department website for a list of advisers and their email addresses.

Students who are registering for the first time with the Department should attend the orientation meeting in August (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration in Economics students entering University at the U1 year in September should directly proceed to ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. without taking ECON 208 Microeconomic Analysis and Applications. and ECON 209 Macroeconomic Analysis and Applications..

Note: Students who wish to switch from the Major Concentration to Honours Economics must complete all the requirements of the Honours program.

Mathematics: Mastery of high school mathematics is required for all economics courses.

Prerequisites: In general, 200-level courses have no prerequisites and 300-level and 400-level courses have ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. or ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours. (or ECON 208 and ECON 209 Macroeconomic Analysis and Applications., or MGCR 293 Managerial Economics. and ECON 295 Macroeconomic Policy.) as prerequisites. In addition, 400-level courses have Calculus 1 (or its equivalent) or a course in mathematical techniques for economic analysis (or its equivalent) as a prerequisite.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

All students must take 6 credits of approved statistics courses. Students should refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

Expand allContract all

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3
ECON 332	Macroeconomic Theory: Majors 1.	3
ECON 333	Macroeconomic Theory - Majors 2.	3

Complementary Courses (18 credits)

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

Economics Honours (B.A.) (42 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 42

Program Description

The Honours Economics program (B.A. and B.Com.) consists of 30 specified credits of Honours courses and a further 12 credits of approved Economics courses.

Continuation in the Honours program from one year to the next requires a minimum grade of B- in ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours. and a minimum B- average in required and complementary Honours economics courses. Students failing to meet

these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours. Note that graduation with Honours has more stringent requirements (see below) than these.

To be awarded an Honours degree, a student must obtain a 3.00 GPA in the required/core courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. Students also have to meet the requirements of the Faculty of Arts for Honours and First Class Honours. In cases where a student takes a Supplemental Exam in a course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

All Honours students are required to see an Honours advisor and also consult the Honours and Joint Honours programs available on the Department's website: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the Department of Economics' website.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-10 credits)

For entering this program:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry. ¹	3
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ²	4

¹ Or equivalent (to be completed prior to U2)

² Or equivalent

Required (core) Courses (30 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics course may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 469 in addition to ECON 468.

Normally, ECON 250D1/ECON 250D2 is taken in the U1 year, ECON 353 and ECON 354 are taken in U2, and ECON 450 and ECON 452 are taken in U3. ECON 257D1/ECON 257D2 can be taken in U1 or U2; and ECON 468 can be taken in U2 or U3.

Expand allContract all

Course	Title	Credits	
ECON 250D1	Introduction to Economic Theory: Honours.	3	Continuation in the Economic component of this program from one year to the next requires a minimum grade of B- in ECON 250D1
ECON 250D2	Introduction to Economic Theory: Honours.	3	Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours., and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours. Note that graduation with Honours has more stringent requirements (see below) than these.
ECON 257D1	Economic Statistics - Honours.	3	
ECON 257D2	Economic Statistics - Honours.	3	
ECON 353	Macroeconomics - Honours 1.	3	
ECON 354	Macroeconomics - Honours 2.	3	
ECON 450	Advanced Economic Theory 1 - Honours.	3	
ECON 452	Advanced Economic Theory 2 - Honours.	3	
ECON 468	Econometrics 1 - Honours.	3	

3 credits from:

Expand allContract all

Course	Title	Credits	
ECON 460	History of Thought 1 - Honours.	3	For graduation with the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.
ECON 461	History of Thought 2 - Honours.	3	
ECON 469	Econometrics 2 - Honours.	3	Students also have to meet the requirements of the other component of this program and of the relevant Faculty for Honours and First Class Honours.

Complementary Courses (12 credits)

Complementary courses are usually taken in U2 or U3.

12 credits of Economics courses at the 300, 400, or 500 level, approved by an Honours adviser. Unless explicitly approved by the Honours advisor, at least 9 of the 12 credits have to be at the 400 or 500 level. Note that Honours students are not permitted to register for majors or general Economics courses where an Honours or a more advanced undergraduate course in the same subject is offered.

Economics Joint Honours Component (B.A.) (30 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 30

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two approved disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs" on the Economics Department website.

Joint Honours students should consult an adviser in each of the relevant departments to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

For the Economics component of this program, Joint Honours students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics.

Continuation in the Economic component of this program from one year to the next requires a minimum grade of B- in ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours., and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours. Note that graduation with Honours has more stringent requirements (see below) than these.

For graduation with the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the

required and complementary credits in Economics, and a CGPA of

3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in

the required and complementary credits in Economics, and a CGPA of

3.50. In cases where a student takes a Supplemental Exam in an

Economics course, both the original and the Supplemental Exam

grades will be counted in the calculation of the GPA and CGPA

averages.

Students also have to meet the requirements of the other component

of this program and of the relevant Faculty for Honours and First Class

Honours.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-10 credits)

For entering the program:

Course	Title	Credits
MATH 133	Linear Algebra and Geometry. ¹	3
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ²	4

¹

² Or equivalent (to be completed prior to U2)

Or equivalent

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics courses may be waived the ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. requirement. These students will normally be required to take ECON 469 Econometrics 2 - Honours. in addition to ECON 468 Econometrics 1 - Honours..

Expand allContract all

Course	Title	Credits	
ECON 250D1	Introduction to Economic Theory: Honours.	3	Honours Economics courses. Note that graduation with Honours has more stringent requirements than these (see below).
ECON 250D2	Introduction to Economic Theory: Honours.	3	
ECON 257D1	Economic Statistics - Honours.	3	For graduation with Honours in the Economics component, a student must obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the initial and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.
ECON 257D2	Economic Statistics - Honours.	3	
ECON 353	Macroeconomics - Honours 1.	3	
ECON 354	Macroeconomics - Honours 2.	3	
ECON 450	Advanced Economic Theory 1 - Honours.	3	
ECON 452	Advanced Economic Theory 2 - Honours.	3	
ECON 468	Econometrics 1 - Honours.	3	For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

Complementary Course (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits	
ECON 460	History of Thought 1 - Honours.	3	To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.
ECON 461	History of Thought 2 - Honours.	3	
ECON 469	Econometrics 2 - Honours.	3	We recommend that students consult an Arts OASIS advisor for degree planning.

Economics / Accounting Joint Honours Component (B.A.) (60 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The B.A. Joint Honours in Economics and Accounting is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Accounting requires the completion of 30 specified credits of Honours economics courses and 30 specified credits for Accounting.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours., and a minimum B- average in the required and complementary

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-10 credits)

For entering the program:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry. ¹	3
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ²	4

¹ Or equivalent (to be completed prior to U2)

² Or equivalent

Economics - Required Courses (27 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics courses may be waived the ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. requirement. These students will normally be required to take ECON 469 Econometrics 2 - Honours. in addition to ECON 468 Econometrics 1 - Honours..

Expand allContract all

Course	Title	Credits
ECON 250D1	Introduction to Economic Theory: Honours.	3
ECON 250D2	Introduction to Economic Theory: Honours.	3
ECON 257D1	Economic Statistics - Honours.	3

ECON 257D2	Economic Statistics - Honours.	3	ACCT 453	Advanced Financial Accounting.	3
ECON 353	Macroeconomics - Honours 1.	3	ACCT 463	Management Control.	3
ECON 354	Macroeconomics - Honours 2.	3	ACCT 475	Principles of Auditing.	3
ECON 450	Advanced Economic Theory 1 - Honours.	3	ACCT 486	Business Taxation 2.	3
ECON 452	Advanced Economic Theory 2 - Honours.	3			
ECON 468	Econometrics 1 - Honours.	3			

Notes:

- Three of the 6 credits for ECON 250D1 Introduction to Economic Theory: Honours./ECON 257D2 Economic Statistics - Honours. are counted in the Management Core, where it replaces MGCR 293 Managerial Economics..
- Three of the 6 credits for ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. are counted in the Core, where it replaces MGCR 271 Business Statistics..
- Three of the 6 credits for ECON 353 Macroeconomics - Honours 1. and ECON 354 Macroeconomics - Honours 2. are counted in the Core, where it replaces ECON 295 Macroeconomic Policy..

Economics - Complementary Courses (3 credits)

3 credits selected from the following Economics courses:

Expand allContract all		Credits
Course	Title	Credits
ECON 460	History of Thought 1 - Honours.	3
ECON 461	History of Thought 2 - Honours.	3
ECON 469	Econometrics 2 - Honours.	3

Accounting - Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ACCT 351	Intermediate Financial Accounting 1.	3
ACCT 352	Intermediate Financial Accounting 2.	3
ACCT 361	Management Accounting.	3
ACCT 455	Development of Accounting Thought.	3
MGCR 211	Introduction to Financial Accounting.	3
MGCR 341	Introduction to Finance.	3

Accounting - Complementary Courses (12 credits)

12 credits of Accounting courses selected from:

Expand allContract all		Credits
Course	Title	Credits
ACCT 354	Financial Statement Analysis.	3
ACCT 362	Cost Accounting.	3
ACCT 385	Principles of Taxation.	3
ACCT 452	Financial Reporting Valuation.	3

Economics / Finance Joint Honours Component (B.A.) (60 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The B.A. Joint Honours in Economics and Finance is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Finance requires the completion of 30 specified credits of Honours Economics courses listed in the Economics Honours Program and 30 specified credits for Finance. This program is designed to take advantage of both McGill's Finance and Economics course offerings to produce a student who is well trained in these two complementary areas. To enter this Joint Honours program, students must have completed two terms of Calculus.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250D1 Introduction to Economic Theory: Honours./ECON 257D2 Economic Statistics - Honours., and a minimum B- average in the required and complementary Honours Economics courses.

For the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in a course, both the initial and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

To earn the Honours in Economics and Finance, the Faculty of Management requires that students must achieve a grade of B- or better in all courses in the Finance component of this program.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-10 credits)

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry. ¹	3
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ²	4

¹

Or equivalent (to be taken prior to U2)

Or equivalent

Required Courses (45 credits)

Economics

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics courses may be waived the ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. requirement. These students will normally be required to take ECON 469 Econometrics 2 - Honours. in addition to ECON 468 Econometrics 1 - Honours..

Expand allContract all

Course	Title	Credits
ECON 250D1	Introduction to Economic Theory: Honours.	3
ECON 250D2	Introduction to Economic Theory: Honours.	3
ECON 257D1	Economic Statistics - Honours.	3
ECON 257D2	Economic Statistics - Honours.	3
ECON 353	Macroeconomics - Honours 1.	3
ECON 354	Macroeconomics - Honours 2.	3
ECON 450	Advanced Economic Theory 1 - Honours.	3
ECON 452	Advanced Economic Theory 2 - Honours.	3
ECON 468	Econometrics 1 - Honours.	3

Finance

Expand allContract all

Course	Title	Credits
FINE 342	Corporate Finance.	3
FINE 441	Investment Management.	3
FINE 443	Applied Corporate Finance.	3
FINE 547	Advanced Finance Seminar.	3

MGCR 211	Introduction to Financial Accounting.	3
MGCR 341	Introduction to Finance.	3

Notes:

- Three of the 6 credits for ECON 250D1 Introduction to Economic Theory: Honours./ ECON 250D2 Introduction to Economic Theory: Honours. are counted in the Management Core, where it replaces MGCR 293 Managerial Economics..
- Three of the 6 credits for ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. are counted in the Core, where it replaces MGCR 271 Business Statistics..
- Three of the 6 credits for ECON 353 Macroeconomics - Honours 1. and ECON 354 Macroeconomics - Honours 2. are counted in the Core, where it replaces ECON 295 Macroeconomic Policy..

Complementary Courses (15 credits)

Economics

3 credits selected from the following:

Expand allContract all

Course	Title	Credits
ECON 460	History of Thought 1 - Honours.	3
ECON 461	History of Thought 2 - Honours.	3
ECON 469	Econometrics 2 - Honours.	3

Finance

6 credits selected from the following:

Expand allContract all

Course	Title	Credits
FINE 442	Capital Markets and Institutions.	3
FINE 448	Financial Derivatives.	3
FINE 449	Risk Management in Finance.	3
FINE 451	Fixed Income Analysis.	3
FINE 452	Applied Quantitative Finance.	3

6 credits from any undergraduate FINE course.

Education for Arts Students Minor Concentration (B.A.) (18 credits)

Offered by: Education - Dean's Office (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

This Minor concentration allows Arts students to develop and explore an interest in education. It will give students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed. degree.

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching

career should consult the Faculty of Education section of the Course Catalogue for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Students should consult the Faculty of Arts section on "Faculty Degree Requirements", and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
EDEC 260	Philosophical Foundations.	3
EDPE 300	Educational Psychology.	3

Complementary Courses (12 credits)

Group A

6 credits selected as follows:

3 credits, one of:

Expand allContract all

Course	Title	Credits
EDEC 233	Indigenous Education.	3
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

3 credits, one of:

Expand allContract all

Course	Title	Credits
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEM 220	Contemporary Issues in Education.	3

Group B

6 credits to be chosen from the following list:

Expand allContract all

Course	Title	Credits
EDEC 262	Media, Technology and Education. ¹	3
EDES 335	Teaching Secondary Science 1. ¹	3
EDES 353	Teaching Secondary Mathematics 1. ¹	3
EDPE 304	Measurement and Evaluation.	3
EDPI 341	Instruction in Inclusive Schools.	3

¹ Note: Either EDES 335 Teaching Secondary Science 1. or EDES 353 Teaching Secondary Mathematics 1. may be taken but not both.

Educational Psychology Minor Concentration (B.A.) (18 credits)

Offered by: Educational & Counselling Psych (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of this Course Catalogue for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Respecting Faculty of Arts Multi-track System regulations, students registering for the Major Concentration Psychology and the Minor Concentration Educational Psychology must complete an additional minor concentration in Arts in a unit other than Psychology.

Students should consult the Faculty of Arts sections on "Faculty Degree Requirements," "Program Requirements," and "Departmental Programs" for information on the "Multi-track System" and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc

Required Course (3 credits)

This required course has a prerequisite of an introductory course in psychology taken at either CEGEP or university level (e.g., PSYC 100 Introduction to Psychology, or EDPE 300 Educational Psychology.). Students who do not have this prerequisite prior to entry into the program may take either PSYC 100 Introduction to Psychology, or EDPE 300 Educational Psychology.. EDPE 300 Educational Psychology. may count as one of the complementary courses for the Minor concentration.

Expand allContract all

Course	Title	Credits
EDPE 335	Instructional Psychology.	3

Complementary Courses (15 credits)

15 credits to be selected as follows:

3 credits to be taken near the end of program completion, one of:

Note: Students with a background in psychology should normally select EDPE 355 Cognition and Education.. EDPE 355 Cognition and Education.

Expand allContract all

Course	Title	Credits
EDPE 355	Cognition and Education.	3
EDPE 555	Introduction to Learning Sciences	3

12 credits selected from the following list:

Expand allContract all

Course	Title	Credits	Major Author	Credits
EDPE 208	Personality and Social Development. ¹	3	3 credits on a Major Author:	
EDPE 304	Measurement and Evaluation.	3	Expand allContract all	
EDPE 355	Cognition and Education.	3	Course	Title
EDPE 377	Adolescence and Education.	3	ENGL 315	Shakespeare.
EDPE 515	Gender Identity Development.	3	ENGL 316	Milton.
EDPE 535	Instructional Design.	3	ENGL 357	Chaucer.
EDPE 555	Introduction to Learning Sciences	3	ENGL 409	Studies in a Canadian Author.
EDPI 341	Instruction in Inclusive Schools.	3	ENGL 416	Studies in Shakespeare.
EDPI 526	Supporting Students' Strengths and Talents.	3	ENGL 417	A Major English Poet.
EDPI 527	Creativity and its Cultivation.	3	ENGL 418	A Major Modernist Writer.
EDPI 543	Family, School and Community.	3		

¹ Note: Students may not receive credit for both EDPE 208 Personality and Social Development. and PSYC 304 Child Development..
EDPE 208 Personality and Social Development. is not open to students registered in a major or minor concentration in Psychology.

English - Literature Minor Concentration (B.A.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Pre-1800

3 credits from a list of pre-1800 literature courses:

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 342	Introduction to Old English.	3
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 403	Studies in the 18th Century.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 444	Studies in Women Authors.	3
ENGL 452	Studies in Old English.	3
ENGL 456	Middle English.	3

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

Course	Title	Credits
ENGL 199	FYS: Form and Representation.	3
ENGL 204	English Literature and the Bible.	3

			Credits
Course	Title		
ENGL 237	Introduction to Study of a Literary Form.	3	
ENGL 295	21C and 20C Literature and Culture	3	ENGL 306 Theatre History: Medieval and Early Modern. 3
ENGL 297	Special Topics of Literary Study.	3	ENGL 310 Restoration and 18th Century Drama. 3
ENGL 343	Literature and Science 1.	3	ENGL 312 Victorian and Edwardian Drama 1. 3
ENGL 345	Literature and Society.	3	ENGL 370 Theatre History: The Long Eighteenth Century. 3
ENGL 354	Sexuality and Representation.	3	ENGL 371 Theatre History: 19th to 21st Centuries. 3
ENGL 364	Creative Writing.	3	ENGL 444 Studies in Women Authors. 3
ENGL 385AA	Film Adaptations of Shakespeare	3	ENGL 467 Advanced Studies in Theatre History. 3
ENGL 394	Popular Literary Forms.	3	ENGL 486 Special Topics in Theatre History . 3
ENGL 421	African Literature.	3	
ENGL 424	Irish Literature.	3	
ENGL 437	Studies in Literary Form.	3	
ENGL 438	Studies in Literary Form.	3	Expand allContract all
ENGL 440	First Nations and Inuit Literature and Media.	3	Course Title Credits
ENGL 444	Studies in Women Authors.	3	ENGL 306 Theatre History: Medieval and Early Modern. 3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3	ENGL 308 English Renaissance Drama 1. 3
ENGL 460	Studies in Literary Theory.	3	ENGL 310 Restoration and 18th Century Drama. 3
ENGL 461	Studies in Literary Theory 2.	3	ENGL 312 Victorian and Edwardian Drama 1. 3
			ENGL 315 Shakespeare. 3
			ENGL 370 Theatre History: The Long Eighteenth Century. 3
			ENGL 416 Studies in Shakespeare. 3

English - Drama and Theatre Minor Concentration (B.A.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3

Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

Expand allContract all

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 416	Studies in Shakespeare.	3

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

Expand allContract all

Course	Title	Credits
ENGL 407	The 20th Century.	3
ENGL 413	Special Topics in Canadian Drama and Theatre.	3
ENGL 430	Studies in Drama.	3
ENGL 431	Studies in Drama.	3
ENGL 458	Theories of Text and Performance 1.	3
ENGL 459	Theories of Text and Performance 2.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3

Drama and Theatre Option's Offerings - Additional Courses

3 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

Expand allContract all

Course	Title	Credits
ENGL 314	20th Century Drama.	3
ENGL 434	Independent Theatre Project.	3

Drama and Theatre - Courses of Interest - Other Departments

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in the current academic year.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

Expand allContract all		
Course	Title	Credits
EAST 464	Image, Text, Performance. ¹	3
MUHL 287	The Opera.	3
PHIL 242	Introduction to Feminist Theory.	3
PSYC 212	Perception.	3

¹ This course has an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

English - Cultural Studies Minor Concentration (B.A.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

Expand allContract all

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

Expand allContract all

Course	Title	Credits
ENGL 280	Introduction to Film as Mass Medium.	3
ENGL 354	Sexuality and Representation.	3
ENGL 366	Film Genre.	3

ENGL 378	Media and Culture.	3	Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.
ENGL 380	Non-Fiction Media: Cinema, Television, Radio.	3	
ENGL 382	International Cinema 1.	3	
ENGL 383	Studies in Communications 1.	3	
ENGL 385AA	Film Adaptations of Shakespeare	3	
ENGL 388	Studies in Popular Culture.	3	
ENGL 389	Studies in Popular Culture.	3	
ENGL 390	Political and Cultural Theory.	3	
ENGL 395	Cultural and Theatre Studies.	3	
ENGL 391AA	Spec Top:Cultural Studies 1	3	
ENGL 440	First Nations and Inuit Literature and Media.	3	
ENGL 476	Alternative Approaches to Media 1.	3	
ENGL 482	International Cinema 2.	3	

English - Literature Major Concentration (B.A.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 311	Poetics.	3

Complementary Courses (27 credits)

27 credits selected as described below.

Canadian Literature

3 credits from a list of Canadian Literature courses:

Expand allContract all

Course	Title	Credits
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 410	Theme or Movement Canadian Literature.	3
ENGL 411	Studies in Canadian Fiction.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance:

Backgrounds of English Literature

Expand allContract all

Course	Title	Credits
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3

Old English

Expand allContract all

Course	Title	Credits
ENGL 342	Introduction to Old English.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 452	Studies in Old English.	3

Medieval

Expand allContract all

Course	Title	Credits			
ENGL 337	Theme or Genre in Medieval Literature.	3	ENGL 334	Victorian Poetry.	3
ENGL 349	English Literature and Folklore 1.	3	ENGL 404	Studies in 19th Century Literature 1.	3
ENGL 356	Middle English.	3	ENGL 405	Studies in 19th Century Literature 2.	3
ENGL 357	Chaucer .	3	ENGL 444	Studies in Women Authors.	3
ENGL 456	Middle English.	3			

Renaissance

Expand allContract all

Course	Title	Credits			
ENGL 305	Renaissance English Literature 1.	3	ENGL 326	19th Century American Prose.	3
ENGL 307	Renaissance English Literature 2.	3	ENGL 422	Studies in 19th Century American Literature.	3
ENGL 308	English Renaissance Drama 1.	3	ENGL 444	Studies in Women Authors.	3
ENGL 315	Shakespeare.	3			
ENGL 316	Milton.	3			
ENGL 349	English Literature and Folklore 1.	3			
ENGL 400	Earlier English Renaissance.	3			
ENGL 401	Studies in the 17th Century.	3			
ENGL 416	Studies in Shakespeare.	3			

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

Expand allContract all

Course	Title	Credits			
ENGL 302	Restoration and 18th C. English Literature 1.	3	ENGL 335	The 20th Century Novel 1.	3
ENGL 444	Studies in Women Authors.	3	ENGL 361	Poetry of the 20th Century 1.	3

18 Century

Expand allContract all

Course	Title	Credits			
ENGL 301	Earlier 18th Century Novel.	3	ENGL 361	Poetry of the 20th Century 1.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3	ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3	ENGL 418	A Major Modernist Writer.	3
ENGL 403	Studies in the 18th Century.	3	ENGL 444	Studies in Women Authors.	3
ENGL 444	Studies in Women Authors.	3			

Romantic

Expand allContract all

Course	Title	Credits			
ENGL 331	Literature Romantic Period 1.	3	ENGL 320	Postcolonial Literature.	3
ENGL 332	Literature Romantic Period 2.	3	ENGL 333	Development of Canadian Poetry 2.	3
ENGL 405	Studies in 19th Century Literature 2.	3	ENGL 336	The 20th Century Novel 2.	3
ENGL 444	Studies in Women Authors.	3	ENGL 407	The 20th Century.	3

Victorian

Expand allContract all

Course	Title	Credits			
ENGL 329	English Novel: 19th Century 1.	3	ENGL 443	Contemporary Women's Fiction.	3
ENGL 330	English Novel: 19th Century 2.	3	ENGL 444	Studies in Women Authors.	3

19th Century American

Expand allContract all

Course	Title	Credits
ENGL 326	19th Century American Prose.	3
ENGL 422	Studies in 19th Century American Literature.	3
ENGL 444	Studies in Women Authors.	3

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

Expand allContract all

Course	Title	Credits
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 444	Studies in Women Authors.	3

Modernist

Expand allContract all

Course	Title	Credits
ENGL 335	The 20th Century Novel 1.	3
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3

Post-modernist

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Contemporary

Expand allContract all

Course	Title	Credits
ENGL 295	21C and 20C Literature and Culture	3
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 407	The 20th Century.	3
ENGL 408	The 20th Century.	3
ENGL 419	Studies in 20th Century Literature.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 357	Chaucer .	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 417	A Major English Poet.	3
ENGL 418	A Major Modernist Writer.	3

Additional Courses

6 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser.

English - Cultural Studies Major Concentration (B.A.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

Expand allContract all

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3
ENGL 359	The Poetics of the Image.	3

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3

Canadian Component

3 credits from a list of courses in Cultural Studies with a Canadian component:

Expand allContract all

Course	Title	Credits
ENGL 393	Canadian Cinema.	3
ENGL 440	First Nations and Inuit Literature and Media.	3
ENGL 441	Special Topics in Canadian Cultural Studies.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component.

Expand allContract all

Course	Title	Credits	
ENGL 444	Studies in Women Authors.	3	For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at http://www.mcgill.ca/english/ .
ENGL 454	Topics in Cultural Studies and Gender.	3	
ENGL 479	Philosophy of Film.	3	
ENGL 484	Seminar in the Film.	3	
ENGL 489	Culture and Critical Theory 1.	3	
ENGL 490	Culture and Critical Theory 2.	3	
ENGL 492	Image and Text.	3	We recommend that students consult an Arts OASIS advisor for degree planning.

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

Additional Courses

9 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser.

Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser who is approached by a student with strong academic grounds for including a third such course may grant permission (to a maximum of 9 extra-departmental credits) and must so indicate in advance by signing the departmental program audit sheet.

English - Drama and Theatre Major Concentration (B.A.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Drama and Theatre option tries to place its subject in as broad a social and philosophical context as possible. The Drama and Theatre program is not designed to provide professional theatre training. The aim is rather to encourage students to explore the subject as a liberal arts discipline.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

6 credits to be taken in the first two terms of the program

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3
ENGL 355	The Poetics of Performance.	3

Complementary Courses (30 credits)

30 credits selected as described below.

3 credits from the following practice-based courses:

Expand allContract all

Course	Title	Credits
ENGL 269	Introduction to Performance.	3
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

Expand allContract all

Course	Title	Credits
ENGL 365	Costuming for the Theatre 1.	3
ENGL 367	Acting 2.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 376	Scene Study.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3
ENGL 465D1	Theatre Laboratory.	4.5
ENGL 465D2	Theatre Laboratory.	4.5
ENGL 466D1	Directing for the Theatre.	3
ENGL 466D2	Directing for the Theatre.	3
ENGL 469	Acting 3.	3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

Expand all		Contract all
Course	Title	Credits
ENGL 313	Canadian Drama and Theatre.	3
ENGL 413	Special Topics in Canadian Drama and Theatre.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand all		Contract all
Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Theatre History Courses

3 credits from the list of Theatre History courses:

Expand all		Contract all
Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 371	Theatre History: 19th to 21st Centuries.	3
ENGL 444	Studies in Women Authors.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

Expand all		Contract all
Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 416	Studies in Shakespeare.	3

Additional Courses

12 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser

English - Literature Honours (B.A.) (54 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 54 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1 Honours Essay./ENGL 491D2 Honours Essay.), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 54 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

ENGL 202 Departmental Survey of English Literature 1., ENGL 203 Departmental Survey of English Literature 2. and ENGL 311 Poetics. are

normally taken in the first two terms of the program. ENGL 360 Literary Criticism. is normally taken in the second year of the program.

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 311	Poetics.	3
ENGL 360	Literary Criticism.	3
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

Complementary Courses (36 credits)

36 credits selected as described below. At least 6 of the 36 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser. At least 3 of the 36 credits must be devoted to a course on a Major Author, and 3 must be devoted to a course on Canadian Literature, as indicated under the rubrics dedicated to these offerings in each year's list of Complementary Courses on the Department of English website (<http://www.mcgill.ca/english>). A maximum of 9 of the 36 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance.

Backgrounds of English Literature

Expand allContract all

Course	Title	Credits
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3

ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
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Old English

Expand allContract all

Course	Title	Credits
ENGL 342	Introduction to Old English.	3
ENGL 452	Studies in Old English.	3
ENGL 553	Old English Literature.	3

Medieval

Expand allContract all

Course	Title	Credits
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 456	Middle English.	3
ENGL 500	Middle English.	3

Renaissance

Expand allContract all

Course	Title	Credits
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 501	16th Century.	3
ENGL 516	Shakespeare.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

Expand allContract all

Course	Title	Credits
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 444	Studies in Women Authors.	3

18th Century

Expand allContract all

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3
ENGL 310	Restoration and 18th Century Drama.	3

ENGL 403	Studies in the 18th Century.	3	ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3	ENGL 444	Studies in Women Authors.	3
ENGL 503	18th Century.	3			

Romantic

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ENGL 331	Literature Romantic Period 1.	3	ENGL 320	Postcolonial Literature.	3
ENGL 332	Literature Romantic Period 2.	3	ENGL 333	Development of Canadian Poetry 2.	3
ENGL 444	Studies in Women Authors.	3	ENGL 443	Contemporary Women's Fiction.	3

Victorian

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ENGL 329	English Novel: 19th Century 1.	3	ENGL 320	Postcolonial Literature.	3
ENGL 330	English Novel: 19th Century 2.	3	ENGL 333	Development of Canadian Poetry 2.	3
ENGL 334	Victorian Poetry.	3	ENGL 336	The 20th Century Novel 2.	3
ENGL 404	Studies in 19th Century Literature 1.	3	ENGL 407	The 20th Century.	3
ENGL 405	Studies in 19th Century Literature 2.	3	ENGL 408	The 20th Century.	3
ENGL 423	Studies in 19th Century Literature.	3	ENGL 419	Studies in 20th Century Literature.	3
ENGL 444	Studies in Women Authors.	3	ENGL 421	African Literature.	3
ENGL 504	19th Century.	3	ENGL 443	Contemporary Women's Fiction.	3
			ENGL 444	Studies in Women Authors.	3

19th Century American

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ENGL 326	19th Century American Prose.	3	ENGL 320	Postcolonial Literature.	3
ENGL 422	Studies in 19th Century American Literature.	3	ENGL 333	Development of Canadian Poetry 2.	3
ENGL 444	Studies in Women Authors.	3	ENGL 336	The 20th Century Novel 2.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary.

Early 20th Century

Expand allContract all

Course	Title	Credits	Offered by:	English (Faculty of Arts)
ENGL 327	Canadian Prose Fiction 1.	3	Degree:	Bachelor of Arts
ENGL 328	Development of Canadian Poetry 1.	3	Program credit weight:	54
ENGL 361	Poetry of the 20th Century 1.	3		
ENGL 414	Studies in 20th Century Literature 1.	3		
ENGL 444	Studies in Women Authors.	3		

Modernist

Expand allContract all

Course	Title	Credits	Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty
ENGL 327	Canadian Prose Fiction 1.	3	
ENGL 328	Development of Canadian Poetry 1.	3	
ENGL 335	The 20th Century Novel 1.	3	
ENGL 361	Poetry of the 20th Century 1.	3	
ENGL 414	Studies in 20th Century Literature 1.	3	

Post-modernist

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Contemporary

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 407	The 20th Century.	3
ENGL 408	The 20th Century.	3
ENGL 419	Studies in 20th Century Literature.	3
ENGL 421	African Literature.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Literature Stream Offerings

6 credits from among English Department Literature stream offerings.

Department Offerings

9 credits from among other Department offerings (ENGL courses).

English - Drama and Theatre Honours (B.A.) (54 credits)**Offered by:** English (Faculty of Arts)**Degree:** Bachelor of Arts**Program credit weight:** 54**Program Description**

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty

for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 54 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1 Honours Essay./ENGL 491D2 Honours Essay.), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 54 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Note: ENGL 230 and ENGL 355 should be taken in the first two terms of the program.

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3
ENGL 355	The Poetics of Performance.	3
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

Complementary Courses (42 credits)

42 credits selected as described below. At least 6 of the 42 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the Program Adviser. A maximum of 9 of the 42 credits are allowed at the 200 level, none in the final year of the program.

3 credits from the following practice-based courses:

Expand allContract all

Course	Title	Credits
ENGL 269	Introduction to Performance.	3
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3

Shakespeare or Another Major Figure in Drama and Theatre Courses

3 credits from a list of courses on Shakespeare or, when available and with an instructor's signed permission on the student's Audit Sheet, another major figure in Drama and Theatre:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 516	Shakespeare.	3

Drama and/or Theatre Courses with a Canadian Component

3 credits from a list of courses in Drama and/or Theatre with a Canadian component:

Expand allContract all

Course	Title	Credits
ENGL 313	Canadian Drama and Theatre.	3
ENGL 413	Special Topics in Canadian Drama and Theatre.	3

Theatre History Courses

3 credits from the list of courses in Theatre History:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 314	20th Century Drama.	3
ENGL 315	Shakespeare.	3
ENGL 444	Studies in Women Authors.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 371	Theatre History: 19th to 21st Centuries.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3
ENGL 516	Shakespeare.	3

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3

ENGL 416	Studies in Shakespeare.	3
ENGL 516	Shakespeare.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

400-Level Theory Courses

3 credits from a list of courses with a theoretical component, from the option's offerings at the 400 level or above:

Expand allContract all

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 458	Theories of Text and Performance 1.	3
ENGL 459	Theories of Text and Performance 2.	3
ENGL 467	Advanced Studies in Theatre History.	3

Performance-Oriented Courses

9 credits from the list of Performance-Oriented courses:

Expand allContract all

Course	Title	Credits
ENGL 365	Costuming for the Theatre 1.	3
ENGL 367	Acting 2.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 376	Scene Study.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3
ENGL 465D1	Theatre Laboratory.	4.5
ENGL 465D2	Theatre Laboratory.	4.5
ENGL 466D1	Directing for the Theatre.	3
ENGL 466D2	Directing for the Theatre.	3
ENGL 469	Acting 3.	3
ENGL 565	Drama Workshop.	3

English Courses

12 credits in English selected in consultation with an academic adviser.

Drama and Theatre - Courses of Interest - Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser, approached by a student with strong academic grounds for including a third such course, may grant permission, to a maximum of 9 extra-departmental credits, and must so indicate in advance by signing the departmental program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit towards the student's Drama and Theatre program. This list applies only to these courses as they are offered in the current academic year.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

Expand allContract all

Course	Title	Credits
EAST 464	Image, Text, Performance. ¹	3
MUHL 287	The Opera.	3
PHIL 242	Introduction to Feminist Theory.	3
PSYC 212	Perception.	3

¹ This course has an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

English - Cultural Studies Honours (B.A.) (54 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second-program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program,

the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 54 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1 Honours Essay./ENGL 491D2 Honours Essay.), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 54 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (15 credits)

ENGL 275 Introduction to Cultural Studies., ENGL 277 Introduction to Film Studies., and ENGL 359 The Poetics of the Image. should be taken in the first two terms in the program.

Expand allContract all

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3
ENGL 359	The Poetics of the Image.	3
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

Complementary Courses (39 credits)

39 credits selected as described below. At least 6 of the 39 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser. A maximum of 9 of the 39 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 417	A Major English Poet.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3
ENGL 516	Shakespeare.	3

Canadian Component

3 credits from a list of courses with a Canadian component:

Expand allContract all

Course	Title	Credits
ENGL 393	Canadian Cinema.	3
ENGL 440	First Nations and Inuit Literature and Media.	3
ENGL 441	Special Topics in Canadian Cultural Studies.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

Expand allContract all

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

Expand allContract all

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 454	Topics in Cultural Studies and Gender.	3
ENGL 479	Philosophy of Film.	3
ENGL 484	Seminar in the Film.	3
ENGL 489	Culture and Critical Theory 1.	3
ENGL 490	Culture and Critical Theory 2.	3
ENGL 492	Image and Text.	3

Departmental Offerings

6 credits from among other Departmental offerings (ENGL courses).

Additional Cultural Studies

15 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Honours English - Cultural Studies.

Expand allContract all

Course	Title	Credits
ENGL 280	Introduction to Film as Mass Medium.	3
ENGL 354	Sexuality and Representation.	3
ENGL 366	Film Genre.	3
ENGL 378	Media and Culture.	3
ENGL 380	Non-Fiction Media: Cinema, Television, Radio.	3
ENGL 382	International Cinema 1.	3
ENGL 383	Studies in Communications 1.	3
ENGL 385AA	Film Adaptations of Shakespeare	3
ENGL 388	Studies in Popular Culture.	3
ENGL 389	Studies in Popular Culture.	3
ENGL 390	Political and Cultural Theory.	3
ENGL 395	Cultural and Theatre Studies.	3
ENGL 472	Special Topics: Cultural Studies 2.	3
ENGL 476	Alternative Approaches to Media 1.	3
ENGL 482	International Cinema 2.	3
ENGL 512	Contemporary Studies in Literature and Culture.	3
ENGL 585	Cultural Studies: Film.	3
ENGL 586	Cultural Studies: Other Media.	3

English - Literature Joint Honours Component (B.A.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 311	Poetics.	3
ENGL 360	Literary Criticism.	3

Complementary Courses (24 credits)

24 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. At least 3 of the 24 credits must be devoted to a course on a Major Author as indicated under the rubrics dedicated to these offerings in each year's list of Complementary Courses on the Department of English website (<http://www.mcgill.ca/english>). In addition to the Advanced Study requirement, 3 of the remaining 18 Complementary Courses credits must be completed at the 500 level. A maximum of 9 of the 24 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6-credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Areas of English Literature

3 credits from one of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance.

Backgrounds of English Literature

Expand allContract all

Course	Title	Credits
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3

Old English

Expand allContract all

Course	Title	Credits
ENGL 342	Introduction to Old English.	3
ENGL 452	Studies in Old English.	3
ENGL 553	Old English Literature.	3

Medieval

Expand allContract all

Course	Title	Credits
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 456	Middle English.	3
ENGL 500	Middle English.	3

Renaissance

Expand allContract all

Course	Title	Credits
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 501	16th Century.	3
ENGL 516	Shakespeare.	3

Areas of English Literature

3 credits from one of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

Expand allContract all

Course	Title	Credits
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 444	Studies in Women Authors.	3

18th Century

Expand allContract all

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 403	Studies in the 18th Century.	3

ENGL 444	Studies in Women Authors.	3	ENGL 444	Studies in Women Authors.	3
ENGL 503	18th Century.	3	ENGL 505	20th Century.	3

Romantic

Expand allContract all

Course	Title	Credits
ENGL 331	Literature Romantic Period 1.	3
ENGL 332	Literature Romantic Period 2.	3
ENGL 444	Studies in Women Authors.	3

Victorian

Expand allContract all

Course	Title	Credits
ENGL 329	English Novel: 19th Century 1.	3
ENGL 330	English Novel: 19th Century 2.	3
ENGL 334	Victorian Poetry.	3
ENGL 404	Studies in 19th Century Literature 1.	3
ENGL 405	Studies in 19th Century Literature 2.	3
ENGL 423	Studies in 19th Century Literature.	3
ENGL 444	Studies in Women Authors.	3
ENGL 504	19th Century.	3

19th Century American

Expand allContract all

Course	Title	Credits
ENGL 326	19th Century American Prose.	3
ENGL 422	Studies in 19th Century American Literature.	3
ENGL 444	Studies in Women Authors.	3

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary.

Early 20th Century

Expand allContract all

Course	Title	Credits
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 444	Studies in Women Authors.	3

Modernist

Expand allContract all

Course	Title	Credits
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 335	The 20th Century Novel 1.	3
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 418	A Major Modernist Writer.	3

Post-modernist

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Contemporary

Expand allContract all

Course	Title	Credits
ENGL 295	21C and 20C Literature and Culture	3
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 407	The 20th Century.	3
ENGL 408	The 20th Century.	3
ENGL 419	Studies in 20th Century Literature.	3
ENGL 421	African Literature.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Department Offerings

6 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

English - Drama and Theatre Joint Honours Component (B.A.) (36 credits)**Offered by:** English (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3
ENGL 355	The Poetics of Performance.	3

Complementary Courses (30 credits)

30 credits selected as described below. In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. In addition to the Advanced Study requirement, 3 of the remaining 24 Complementary Course credits must be completed at

the 500 level. A maximum of 9 of the 30 credits are allowed at the 200 level, none in the final year of the program.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

OR

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

3 credits from the following practice-based courses:

Expand allContract all

Course	Title	Credits
ENGL 269	Introduction to Performance.	3
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Dramatic Literature

3 credits in Dramatic Literature:

For a list of courses for the current academic year, please consult the Department of English web page <http://www.mcgill.ca/english/>.

History of the Theatre

3 credits in History of the Theatre:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 314	20th Century Drama.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 371	Theatre History: 19th to 21st Centuries.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 444	Studies in Women Authors.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3
ENGL 516	Shakespeare.	3
ENGL 566	Special Studies in Drama 1.	3

Performance-Oriented Courses

3 credits from the list of Performance-Oriented courses:

Expand allContract all

Course	Title	Credits
ENGL 365	Costuming for the Theatre 1.	3
ENGL 367	Acting 2.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 376	Scene Study.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3
ENGL 465D1	Theatre Laboratory.	4.5
ENGL 465D2	Theatre Laboratory.	4.5
ENGL 466D1	Directing for the Theatre.	3
ENGL 466D2	Directing for the Theatre.	3
ENGL 469	Acting 3.	3
ENGL 565	Drama Workshop.	3

¹

² Note: Spanned credits.

The amount over 3 credits can be attributed to Departmental Offerings credits.

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

English - Cultural Studies Joint Honours Component (B.A.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3
ENGL 359	The Poetics of the Image.	3

Complementary Courses (27 credits)

27 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. In addition to the Advanced Study requirement, 3 of the remaining 21 Complementary Course credits must be completed at the 500 level. A maximum of 9 of the 27 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 417	A Major English Poet.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3
ENGL 516	Shakespeare.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

Expand allContract all

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

Expand allContract all

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 454	Topics in Cultural Studies and Gender.	3
ENGL 479	Philosophy of Film.	3
ENGL 484	Seminar in the Film.	3
ENGL 489	Culture and Critical Theory 1.	3
ENGL 490	Culture and Critical Theory 2.	3
ENGL 492	Image and Text.	3

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

Medieval Studies Minor Concentration (B.A.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Medieval Studies facilitates undergraduate training in the interrelated branches of the discipline (e.g., history, literature, art history, languages, religion, philosophy), providing students with experience working in an inherently interdisciplinary field and a valuable credential to pursue graduate study in the field (in any area).

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
MDST 400	Interdisciplinary Seminar in Medieval Studies.	3

Complementary Courses (15 credits)

15 credits from the following list, of which only 9 credits may be taken in any one department. No more than 6 credits may be taken below the 300 level.

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 314	The Medieval City.	3
ARTH 425	Arts of Medieval Spain.	3

English

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 342	Introduction to Old English.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 452	Studies in Old English.	3
ENGL 456	Middle English.	3
ENGL 500	Middle English.	3
ENGL 553	Old English Literature.	3

¹ When content relates to Medieval Studies.

History and Classical Studies

Expand allContract all

Course	Title	Credits
HIST 319	The Scientific Revolution.	3
HIST 323	History and Sexuality 1.	3
HIST 356	Medicine in the Medieval West.	3
HIST 358	China's Middle Empires.	3
HIST 380	The Medieval Mediterranean .	3

HIST 401AA	Topics: Medieval Culture & Soc	3
HIST 567D1	Seminar: Medieval Medicine.	3
HIST 567D2	Seminar: Medieval Medicine.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 516	Medieval Islam, 13th-15th Century.	3

Jewish Studies

Expand allContract all

Course	Title	Credits
JWST 261	History of Jewish Philosophy and Thought.	3
JWST 337	Jewish Philosophy and Thought 1.	3

Languages, Literatures, and Cultures

Expand allContract all

Course	Title	Credits
ITAL 355	Dante and the Middle Ages.	3
ITAL 356	Medieval Discourses on Love.	3

Langue et Littérature Françaises

Expand allContract all

Course	Title	Credits
FREN 455	La littérature médiévale 1.	1
FREN 456	La littérature médiévale 2.	1

Philosophy

Expand allContract all

Course	Title	Credits
PHIL 344	Medieval and Renaissance Political Theory.	1
PHIL 356	Early Medieval Philosophy.	3

¹ If chosen, students may take either PHIL 344 or POLI 334.

Political Science

Expand allContract all

Course	Title	Credits
POLI 334	Western Political Theory 2.	1

¹ If chosen, students may take either POLI 334 or PHIL 344.

Religious Studies

Expand allContract all

Course	Title	Credits
RELG 322	Church and Empire to 1300 .	3

World Cinemas Minor Concentration (B.A.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EAST 279	Introduction to Film History. ¹	3
ENGL 277	Introduction to Film Studies. ¹	3
LLCU 279	Introduction to Film History.	3

¹ Take either EAST 279 Introduction to Film History, or LLCU 279 Introduction to Film History..

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

Expand allContract all

Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 368	Asian Genre Cinemas.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 564	Structures of Modernity: Asia.	3
ENGL 279	Introduction to Film History.	3
ENGL 280	Introduction to Film as Mass Medium.	3
ENGL 350	Studies in the History of Film 1.	3

ENGL 351	Studies in the History of Film 2.	3
ENGL 354	Sexuality and Representation.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 366	Film Genre.	3
ENGL 374	Film Movement or Period.	3
ENGL 381	A Film-Maker 1.	3
ENGL 382	International Cinema 1.	3
ENGL 385AA	Film Adaptations of Shakespeare	3
ENGL 391AA	Spec Top:Cultural Studies 1	3
ENGL 393	Canadian Cinema.	3
ENGL 451	A Period in Cinema.	3
ENGL 476	Alternative Approaches to Media 1.	3
ENGL 479	Philosophy of Film.	3
ENGL 480	Studies in History of Film 1.	3
ENGL 481	A Film-Maker 2.	3
ENGL 482	International Cinema 2.	3
ENGL 484	Seminar in the Film.	3
ENGL 492	Image and Text.	3
ENGL 585	Cultural Studies: Film.	3
FILM 499	Internship: World Cinemas.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
GERM 357	German Culture in European Context.	3
GERM 369	The German Novel.	3
GERM 370	Special Topics in German Film.	3
GERM 373	Weimar German Cinema.	3
HISP 340	Latin American Cinema.	3
HISP 341	Spanish Cinema.	3
HIST 435	Topics in South Asian History.	3
ITAL 329	Italian Cinematic Tradition.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 477	Italian Cinema and Video.	3
LLCU 200	Topics in Film.	3
LLCU 300	Cinema and the Visual.	3
MUHL 330	Music and Film.	3
RUSS 213	Introduction to Soviet Film.	3
RUSS 395	Soviet Cinema: Art and Politics.	3

Gender, Sexuality, Feminist, and Social Justice Studies Minor Concentration (B.A.) (18 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships.

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3

3 credits Gender, Sexuality Feminist, and Social Justice Studies (GSFS) from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3
GSFS 403	Feminisms and the Law.	3
GSFS 404	Politics of Identity.	3
GSFS 405	Social Justice and Activism.	3
GSFS 406	Trans*Feminisms.	3
GSFS 407	Sexuality and Gender: New Directions.	3

Credits may count towards only one program requirement.

12 credits from the following:

Minimum of 6 credits must be at the 300 level or higher.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 3 transfer credits may be accepted from approved exchange programs subject to University approval.

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 327	Anthropology of South Asia. ¹	3
ANTH 381	Special Topic 2.	3
ANTH 407	Anthropology of the Body.	3
ANTH 413	Gender in Archaeology. ¹	3
ANTH 480	Special Topic 5.	3
ANTH 555	Advanced Topics in Ethnology. ¹	3
ARCH 533	New Approaches to Architectural History. ¹	3
ARTH 205	Introduction to Modern Art.	3
ARTH 353	Selected Topics in Art History 1. ¹	3
ARTH 354	Selected Topics Art History 2. ¹	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3
ARTH 440	The Body and Visual Culture. ¹	3
CANS 405	Canadian Studies Seminar 5.	3
CLAS 308	Gender in the Ancient World.	3
COMS 310	Media and Feminist Studies. ¹	3
COMS 400	Critical Theory Seminar.	3
COMS 411	Disability, Technology and Communication. ¹	3
COMS 490	Special Topics in History and Theory of Media. ¹	3
COMS 492	Power, Difference and Justice. ¹	3
COMS 541	Cultural Industries.	3
EAST 313	Current Topics: Korean Studies 1. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan. ¹	3
EAST 453	Topics: Chinese Literature.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPE 515	Gender Identity Development.	3
ENGL 275	Introduction to Cultural Studies.	3
ENGL 290	Postcolonial and World Literatures in English.	3
ENGL 320	Postcolonial Literature. ¹	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3
ENGL 388	Studies in Popular Culture. ¹	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3
ENGL 418	A Major Modernist Writer. ¹	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3
ENGL 443	Contemporary Women's Fiction.	3

ENGL 444	Studies in Women Authors. ¹	3	HSEL 308	Issues in Women's Health.	3
ENGL 489	Culture and Critical Theory 1. ¹	3	HSEL 309	Women's Reproductive Health.	3
ENGL 516	Shakespeare. ¹	3	INDG 200	Introduction to Indigenous Studies.	3
GEOG 331	Urban Social Geography. ¹	3	INDG 401	Interdisciplinary Seminar in Indigenous Studies. ¹	3
GEOG 507	Advanced Social Geography. ¹	3	ISLA 310	Women in Islam.	0-3
GERM 364	Gender and Society in German Literature and Culture.	3	ISLA 375	Sufi Women	3
GSFS 200	Feminist and Social Justice Studies.	3	ISLA 585	Arab Women's Literature.	3
GSFS 250	Sexual and Gender Diversity Studies.	3	ITAL 375	Cinema and Society in Modern Italy. ¹	3
GSFS 300	Research Inquiry in GSFS.	3	ITAL 383	Women's Writing since 1880. ¹	3
GSFS 301	Current Topics 1.	3	ITAL 477	Italian Cinema and Video.	3
GSFS 302	Current Topics 2.	3	MUHL 250	Women Making Music.	3
GSFS 303	Gender and Disability.	3	MUHL 299	Music and Queer Identity.	3
GSFS 304	Postcolonial Feminist Theories.	3	PHIL 242	Introduction to Feminist Theory.	3
GSFS 305	Critical Race and Social Justice Theories.	3	PHIL 327	Philosophy of Race.	3
GSFS 306	Queer Theory.	3	PHIL 442	Topics in Feminist Theory.	3
GSFS 307	Indigenous Feminisms.	3	PHIL 446	Current Issues in Political Philosophy. ¹	3
GSFS 308	Sex and Gender Minority Cultures.	3	POLI 348	Gender and Canadian Politics.	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3	POLI 366	Topics in Political Theory 1. ¹	3
GSFS 401	Special Topics 1.	3	POLI 422	Advanced Topics in Comparative Politics 1. ¹	3
GSFS 402	Special Topics 2.	3	POLI 423	Politics of Ethno-Nationalism. ¹	3
GSFS 403	Feminisms and the Law.	3	POLI 432	Advanced Topics in Comparative Politics 2. ¹	3
GSFS 404	Politics of Identity.	3	POLI 444	Topics in International Politics 2. ¹	3
GSFS 405	Social Justice and Activism.	3	PSYC 436	Human Sexuality and Its Problems.	3
GSFS 406	Trans*Feminisms.	3	RELG 271	Religion and Sexuality.	3
GSFS 407	Sexuality and Gender: New Directions.	3	RELG 336	Contemporary Theological Issues. ¹	3
GSFS 450	Independent Reading and Research.	3	RELG 338	Women and the Christian Tradition.	3
GSFS 499	GSFS Internship.	3	RELG 372	Hindu Goddesses.	3
HISP 340	Latin American Cinema. ¹	3	RELG 399	Christian Spirituality. ¹	3
HISP 358	Gender and Textualities. ¹	3	SOCI 247	Family and Modern Society.	3
HIST 201	Modern African History. ¹	3	SOCI 270	Sociology of Gender.	3
HIST 323	History and Sexuality 1.	3	SOCI 321	Gender and Work.	3
HIST 343	Women in Post-Confederation Canada.	3	SOCI 370	Sociology: Gender and Development.	3
HIST 344	The Chinese Family in History.	3	SOCI 386	Contemporary Social Movements.	3
HIST 347	History and Sexuality 2.	3	SOCI 489	Gender, Deviance and Social Control.	3
HIST 354	Women in Europe 1700-2000.	3	SOCI 519	Gender and Globalization.	3
HIST 380	The Medieval Mediterranean. ¹	3	SOCI 530	Sex and Gender.	3
HIST 382	History of South Africa. ¹	3	SOCI 535	Sociology of the Family.	3
HIST 408	Selected Topics in Indigenous History .	3	¹ Note: Course counts toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.		
HIST 412	Women and Gender in Modern Britain.	3			
HIST 420	Gender and Sexuality in Modern China.	3			
HIST 424	Gender, Sexuality and Medicine.	3			
HIST 429AA	Topics: Gender/Feminist Histories.	3			
HIST 433	British Queer History.	3			
HIST 525	Women, Work and Family in Global History.	3			
HIST 526	Women and War.	3			

Gender, Sexuality, Feminist, and Social Justice Studies Major Concentration (B.A.) (36 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts, Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Major Concentration consists of required GSFS courses that allow for an immersion into this area of study, and complementary courses from a range of departments, disciplines, and faculties. Students must see an adviser in Gender, Sexuality, Feminist, and Social Justice Studies at a minimum upon declaring the GSFS Major Concentration and prior to selecting courses for the final year of study.

Students are advised to take GSFS 200 Feminist and Social Justice Studies, and GSFS 250 Sexual and Gender Diversity Studies, in their first year in the program, GSFS 300 Research Inquiry in GSFS, in their second year of the program, and GSFS 400 Capstone: Engaging Fields of GSFS, in their final year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3

Complementary Courses (24 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3
GSFS 403	Feminisms and the Law.	3
GSFS 404	Politics of Identity.	3
GSFS 405	Social Justice and Activism.	3
GSFS 406	Trans*Feminisms.	3
GSFS 407	Sexuality and Gender: New Directions.	3

Credits may count towards only one program requirement.

15 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 381	Special Topic 2.	3
ANTH 407	Anthropology of the Body.	3
ANTH 413	Gender in Archaeology.	3
ANTH 480	Special Topic 5.	3
ANTH 555	Advanced Topics in Ethnology.	3
ARCH 533	New Approaches to Architectural History.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 353	Selected Topics in Art History 1.	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 440	The Body and Visual Culture.	3

CANS 405	Canadian Studies Seminar 5. ¹	3	GSFS 403	Feminisms and the Law.	3
CLAS 308	Gender in the Ancient World.	3	GSFS 404	Politics of Identity.	3
COMS 310	Media and Feminist Studies. ¹	3	GSFS 405	Social Justice and Activism.	3
COMS 400	Critical Theory Seminar.	3	GSFS 406	Trans*Feminisms.	3
COMS 411	Disability, Technology and Communication. ¹	3	GSFS 407	Sexuality and Gender: New Directions.	3
COMS 490	Special Topics in History and Theory of Media. ¹	3	GSFS 450	Independent Reading and Research.	3
COMS 492	Power, Difference and Justice. ¹	3	GSFS 499	GSFS Internship. ¹	3
COMS 541	Cultural Industries. ¹	3	HISP 340	Latin American Cinema.	3
EAST 313	Current Topics: Korean Studies 1.	3	HISP 358	Gender and Textualities. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3	HIST 201	Modern African History.	3
EAST 351	Women Writers of China.	3	HIST 323	History and Sexuality 1.	3
EAST 369	Gender and Sexuality in Asian Media.	3	HIST 343	Women in Post-Confederation Canada.	3
EAST 370	History of Sexuality in Japan. ¹	3	HIST 344	The Chinese Family in History.	3
EAST 453	Topics: Chinese Literature.	3	HIST 347	History and Sexuality 2.	3
EDPC 503	Intersectional Relationships and Sexualities.	3	HIST 354	Women in Europe 1700-2000.	3
EDPE 515	Gender Identity Development.	3	HIST 380	The Medieval Mediterranean. ¹	3
ENGL 275	Introduction to Cultural Studies.	3	HIST 382	History of South Africa.	3
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 408	Selected Topics in Indigenous History .	3
ENGL 320	Postcolonial Literature. ¹	3	HIST 412	Women and Gender in Modern Britain.	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3	HIST 420	Gender and Sexuality in Modern China.	3
ENGL 388	Studies in Popular Culture. ¹	3	HIST 424	Gender, Sexuality and Medicine.	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3	HIST 433	British Queer History.	3
ENGL 418	A Major Modernist Writer. ¹	3	HIST 525	Women, Work and Family in Global History.	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3	HIST 526	Women and War.	3
ENGL 443	Contemporary Women's Fiction.	3	HSEL 308	Issues in Women's Health.	3
ENGL 444	Studies in Women Authors. ¹	3	HSEL 309	Women's Reproductive Health.	3
ENGL 489	Culture and Critical Theory 1. ¹	3	INDG 401	Interdisciplinary Seminar in Indigenous Studies. ¹	3
ENGL 516	Shakespeare. ¹	3	ISLA 310	Women in Islam.	0-3
GEOG 331	Urban Social Geography. ¹	3	ISLA 375	Sufi Women	3
GEOG 507	Advanced Social Geography. ¹	3	ISLA 585	Arab Women's Literature.	3
GERM 364	Gender and Society in German Literature and Culture.	3	ITAL 375	Cinema and Society in Modern Italy. ¹	3
GSFS 200	Feminist and Social Justice Studies.	3	ITAL 383	Women's Writing since 1880. ¹	3
GSFS 250	Sexual and Gender Diversity Studies.	3	ITAL 477	Italian Cinema and Video.	3
GSFS 300	Research Inquiry in GSFS.	3	MUHL 250	Women Making Music.	3
GSFS 301	Current Topics 1.	3	MUHL 299	Music and Queer Identity.	3
GSFS 302	Current Topics 2.	3	PHIL 242	Introduction to Feminist Theory.	3
GSFS 303	Gender and Disability.	3	PHIL 442	Topics in Feminist Theory.	3
GSFS 304	Postcolonial Feminist Theories.	3	PHIL 446	Current Issues in Political Philosophy. ¹	3
GSFS 305	Critical Race and Social Justice Theories.	3	POLI 366	Topics in Political Theory 1. ¹	3
GSFS 306	Queer Theory.	3	POLI 422	Advanced Topics in Comparative Politics 1. ¹	3
GSFS 307	Indigenous Feminisms.	3	POLI 423	Politics of Ethno-Nationalism. ¹	3
GSFS 308	Sex and Gender Minority Cultures.	3	POLI 432	Advanced Topics in Comparative Politics 2. ¹	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3	POLI 444	Topics in International Politics 2.	3
GSFS 401	Special Topics 1.	3	PSYC 436	Human Sexuality and Its Problems. ¹	3
GSFS 402	Special Topics 2.	3	RELG 336	Contemporary Theological Issues.	3

RELG 338	Women and the Christian Tradition.	3
RELG 372	Hindu Goddesses.	3
RELG 399	Christian Spirituality. ¹	3
SOCI 247	Family and Modern Society.	3
SOCI 270	Sociology of Gender.	3
SOCI 321	Gender and Work.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 519	Gender and Globalization.	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3

¹ Note: Course counts toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

Gender, Sexuality, Feminist, and Social Justice Studies Honours (B.A.) (57 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 57

Program Description

The Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 Feminist and Social Justice Studies. and GSFS 250 Sexual and Gender Diversity Studies. in their first year in the program, and GSFS 300 in their second year of the program. Students must take GSFS 495D1 Honours/Joint Honours Colloquium./GSFS 495D2 Honours/Joint Honours Colloquium. and GSFS 496D1 Honours Thesis./GSFS 496D2 Honours Thesis. in their last full year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 495D1	Honours/Joint Honours Colloquium.	1.5
GSFS 495D2	Honours/Joint Honours Colloquium.	1.5
GSFS 496D1	Honours Thesis.	3
GSFS 496D2	Honours Thesis.	3

Complementary Courses (39 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

30 credits selected from the Complementary Course List. Nine credits minimum must be at the 400 or 500 level and 12 credits maximum may be at the 200 level.

Interdisciplinary complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3
GSFS 403	Feminisms and the Law.	3
GSFS 404	Politics of Identity.	3

GSFS 405	Social Justice and Activism.	3	ENGL 443	Contemporary Women's Fiction.	3
GSFS 406	Trans*Feminisms.	3	ENGL 444	Studies in Women Authors.	3
GSFS 407	Sexuality and Gender: New Directions.	3	ENGL 489	Culture and Critical Theory 1. ¹	3

Credits may count towards only one program requirement.

30 credits from the following:

Expand allContract all

Course	Title	Credits			
ANTH 227	Medical Anthropology.	3	GSFS 200	Feminist and Social Justice Studies.	3
ANTH 327	Anthropology of South Asia. ¹	3	GSFS 250	Sexual and Gender Diversity Studies.	3
ANTH 381	Special Topic 2.	3	GSFS 300	Research Inquiry in GSFS.	3
ANTH 407	Anthropology of the Body.	3	GSFS 301	Current Topics 1.	3
ANTH 413	Gender in Archaeology. ¹	3	GSFS 302	Current Topics 2.	3
ANTH 480	Special Topic 5.	3	GSFS 303	Gender and Disability.	3
ANTH 555	Advanced Topics in Ethnology. ¹	3	GSFS 304	Postcolonial Feminist Theories.	3
ARCH 533	New Approaches to Architectural History. ¹	3	GSFS 305	Critical Race and Social Justice Theories.	3
ARTH 205	Introduction to Modern Art. ¹	3	GSFS 306	Queer Theory.	3
ARTH 353	Selected Topics in Art History 1. ¹	3	GSFS 307	Indigenous Feminisms.	3
ARTH 354	Selected Topics Art History 2. ¹	3	GSFS 308	Sex and Gender Minority Cultures.	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3	GSFS 400	Capstone: Engaging Fields of GSFS.	3
ARTH 440	The Body and Visual Culture. ¹	3	GSFS 401	Special Topics 1.	3
CANS 405	Canadian Studies Seminar 5.	3	GSFS 402	Special Topics 2.	3
CLAS 308	Gender in the Ancient World.	3	GSFS 403	Feminisms and the Law.	3
COMS 310	Media and Feminist Studies.	3	GSFS 404	Politics of Identity.	3
COMS 320	Media and Empire. ¹	3	GSFS 405	Social Justice and Activism.	3
COMS 400	Critical Theory Seminar. ¹	3	GSFS 406	Trans*Feminisms.	3
COMS 411	Disability, Technology and Communication. ¹	3	GSFS 407	Sexuality and Gender: New Directions.	3
COMS 490	Special Topics in History and Theory of Media. ¹	3	GSFS 450	Independent Reading and Research.	3
COMS 492	Power, Difference and Justice. ¹	3	GSFS 499	GSFS Internship.	3
COMS 541	Cultural Industries. ¹	3	HISP 340	Latin American Cinema. ¹	3
EAST 313	Current Topics: Korean Studies 1.	3	HISP 358	Gender and Textualities. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3	HIST 201	Modern African History.	3
EAST 351	Women Writers of China.	3	HIST 323	History and Sexuality 1.	3
EAST 369	Gender and Sexuality in Asian Media.	3	HIST 343	Women in Post-Confederation Canada.	3
EAST 370	History of Sexuality in Japan. ¹	3	HIST 344	The Chinese Family in History.	3
EAST 453	Topics: Chinese Literature.	3	HIST 347	History and Sexuality 2.	3
EDPC 503	Intersectional Relationships and Sexualities.	3	HIST 354	Women in Europe 1700-2000.	3
EDPE 515	Gender Identity Development.	3	HIST 380	The Medieval Mediterranean.	3
ENGL 275	Introduction to Cultural Studies.	3	HIST 382	History of South Africa. ¹	3
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 408	Selected Topics in Indigenous History .	3
ENGL 320	Postcolonial Literature. ¹	3	HIST 412	Women and Gender in Modern Britain.	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3	HIST 420	Gender and Sexuality in Modern China.	3
ENGL 388	Studies in Popular Culture. ¹	3	HIST 424	Gender, Sexuality and Medicine.	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3	HIST 433	British Queer History.	3
ENGL 418	A Major Modernist Writer. ¹	3	HIST 525	Women, Work and Family in Global History.	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3			

HIST 526	Women and War.	3
HSEL 308	Issues in Women's Health.	3
HSEL 309	Women's Reproductive Health.	3
INDG 401	Interdisciplinary Seminar in Indigenous Studies.	3
ISLA 310	Women in Islam.	0-3
ISLA 375	Sufi Women	3
ISLA 585	Arab Women's Literature.	3
ITAL 375	Cinema and Society in Modern Italy. ¹	3
ITAL 383	Women's Writing since 1880. ¹	3
ITAL 477	Italian Cinema and Video.	3
MUHL 250	Women Making Music.	3
MUHL 299	Music and Queer Identity.	3
PHIL 242	Introduction to Feminist Theory.	3
PHIL 442	Topics in Feminist Theory.	3
PHIL 446	Current Issues in Political Philosophy. ¹	3
POLI 366	Topics in Political Theory 1.	3
POLI 422	Advanced Topics in Comparative Politics 1. ¹	3
POLI 423	Politics of Ethno-Nationalism. ¹	3
POLI 432	Advanced Topics in Comparative Politics 2. ¹	3
POLI 444	Topics in International Politics 2.	3
PSYC 436	Human Sexuality and Its Problems. ¹	3
RELG 336	Contemporary Theological Issues.	3
RELG 338	Women and the Christian Tradition.	3
RELG 372	Hindu Goddesses. ¹	3
RELG 399	Christian Spirituality. ¹	3
SOCI 247	Family and Modern Society.	3
SOCI 270	Sociology of Gender.	3
SOCI 321	Gender and Work.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 519	Gender and Globalization.	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3

¹ Note: Course is acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

Program credit weight: 36

Program Description

The Joint Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Joint Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Joint Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 Feminist and Social Justice Studies. and GSFS 250 Sexual and Gender Diversity Studies. in their first year in the program, and GSFS 300 Research Inquiry in GSFS. in their second year of the program. Students must take GSFS 495D1 Honours/Joint Honours Colloquium./GSFS 495D2 Honours/Joint Honours Colloquium. and GSFS 497D1 Joint Honours Thesis./GSFS 495D2 Honours/Joint Honours Colloquium. in their last full year of the program.

Students must see and adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (15 credits)

Expand all Contract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 495D1	Honours/Joint Honours Colloquium.	1.5
GSFS 495D2	Honours/Joint Honours Colloquium.	1.5
GSFS 497D1	Joint Honours Thesis.	1.5
GSFS 497D2	Joint Honours Thesis.	1.5

Complementary Courses (21 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science

12 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3
GSFS 403	Feminisms and the Law.	3
GSFS 404	Politics of Identity.	3
GSFS 405	Social Justice and Activism.	3
GSFS 406	Trans*Feminisms.	3
GSFS 407	Sexuality and Gender: New Directions.	3

Credits may count towards only one program requirement.

12 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 327	Anthropology of South Asia. ¹	3
ANTH 381	Special Topic 2.	3
ANTH 407	Anthropology of the Body.	3
ANTH 413	Gender in Archaeology. ¹	3
ANTH 480	Special Topic 5.	3
ANTH 555	Advanced Topics in Ethnology. ¹	3
ARCH 533	New Approaches to Architectural History. ¹	3
ARTH 205	Introduction to Modern Art. ¹	3
ARTH 353	Selected Topics in Art History 1. ¹	3
ARTH 354	Selected Topics Art History 2. ¹	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3
ARTH 440	The Body and Visual Culture. ¹	3
CANS 405	Canadian Studies Seminar 5. ¹	3
CLAS 308	Gender in the Ancient World.	3
COMS 310	Media and Feminist Studies.	3
COMS 400	Critical Theory Seminar. ¹	3
COMS 411	Disability, Technology and Communication.	3
COMS 490	Special Topics in History and Theory of Media. ¹	3
COMS 492	Power, Difference and Justice. ¹	3
COMS 541	Cultural Industries.	3
EAST 313	Current Topics: Korean Studies 1. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan. ¹	3
EAST 453	Topics: Chinese Literature.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPE 515	Gender Identity Development.	3
ENGL 275	Introduction to Cultural Studies.	3
ENGL 290	Postcolonial and World Literatures in English.	3
ENGL 320	Postcolonial Literature. ¹	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3
ENGL 388	Studies in Popular Culture. ¹	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3
ENGL 418	A Major Modernist Writer. ¹	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors. ¹	3
ENGL 489	Culture and Critical Theory 1. ¹	3
ENGL 516	Shakespeare. ¹	3
GEOG 331	Urban Social Geography. ¹	3
GEOG 507	Advanced Social Geography. ¹	3
GERM 364	Gender and Society in German Literature and Culture.	3
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3

GSFS 403	Feminisms and the Law.	3	RELG 338	Women and the Christian Tradition.	3	
GSFS 404	Politics of Identity.	3	RELG 372	Hindu Goddesses. ¹	3	
GSFS 405	Social Justice and Activism.	3	RELG 399	Christian Spirituality.	3	
GSFS 406	Trans*Feminisms.	3	SOCI 247	Family and Modern Society.	3	
GSFS 407	Sexuality and Gender: New Directions.	3	SOCI 270	Sociology of Gender.	3	
GSFS 450	Independent Reading and Research.	3	SOCI 321	Gender and Work.	3	
GSFS 499	GSFS Internship.	3	SOCI 370	Sociology: Gender and Development.	3	
HISP 340	Latin American Cinema. ¹	3	SOCI 386	Contemporary Social Movements.	3	
HISP 358	Gender and Textualities. ¹	3	SOCI 489	Gender, Deviance and Social Control.	3	
HIST 201	Modern African History.	3	SOCI 519	Gender and Globalization.	3	
HIST 323	History and Sexuality 1.	3	SOCI 530	Sex and Gender.	3	
HIST 343	Women in Post-Confederation Canada.	3	SOCI 535	Sociology of the Family.	3	
HIST 344	The Chinese Family in History.	3	¹ Note: Course is acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.			
HIST 347	History and Sexuality 2.	3				
HIST 354	Women in Europe 1700-2000.	3				
HIST 380	The Medieval Mediterranean . ¹	3				
HIST 382	History of South Africa.	3				
HIST 408	Selected Topics in Indigenous History .	3				
HIST 412	Women and Gender in Modern Britain.	3				
HIST 420	Gender and Sexuality in Modern China.	3				
HIST 424	Gender, Sexuality and Medicine.	3				
HIST 429AA	Topics: Gender/Feminist Histories.	3				
HIST 433	British Queer History.	3				
HIST 525	Women, Work and Family in Global History.	3				
HIST 526	Women and War.	3				
HSEL 308	Issues in Women's Health.	3				
HSEL 309	Women's Reproductive Health.	3				
INDG 401	Interdisciplinary Seminar in Indigenous Studies. ¹	3				
ISLA 310	Women in Islam.	0-3				
ISLA 375	Sufi Women	3				
ISLA 585	Arab Women's Literature.	3				
ITAL 375	Cinema and Society in Modern Italy. ¹	3				
ITAL 383	Women's Writing since 1880. ¹	3				
ITAL 477	Italian Cinema and Video.	3				
MUHL 250	Women Making Music.	3				
PHIL 242	Introduction to Feminist Theory.	3				
PHIL 442	Topics in Feminist Theory.	3				
PHIL 446	Current Issues in Political Philosophy. ¹	3				
POLI 366	Topics in Political Theory 1.	3				
POLI 422	Advanced Topics in Comparative Politics 1. ¹	3				
POLI 423	Politics of Ethno-Nationalism.	3				
POLI 432	Advanced Topics in Comparative Politics 2. ¹	3				
POLI 444	Topics in International Politics 2. ¹	3				
PSYC 436	Human Sexuality and Its Problems. ¹	3				
RELG 336	Contemporary Theological Issues.	3				

Geography Minor Concentration (B.A.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.; Minor Concentration in Geography focuses on the interactions among people, places, and the environment, and is an excellent complement to many majors. It includes coursework in methodological techniques, human, and/or physical Geography. This Minor Concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Studies).

Required (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 216	Geography of the World Economy.	3

Complementary Courses (15 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 203	Environmental Systems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 217	Cities in the Modern World.	3

GEOG 221	Environment and Health.	3	GEOG 418	Geographies of Race.	3
GEOG 272	Earth's Changing Surface.	3	GEOG 420	Memory, Place, and Power.	3

9 credits from Geography (GEOG) courses at the 300 level or above.

Geography (Urban Studies) Minor Concentration (B.A.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This interdisciplinary program introduces students in the Faculty of Arts to a range of urban dynamics and the challenges facing contemporary cities around the world. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

Required (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 217	Cities in the Modern World.	3

Complementary Courses (15 credits)

15 credits selected from the following lists. At least 9 credits must be completed at the 300-level or above:

Group A

6-9 credits selected from:

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 314	Geospatial Analysis.	3
GEOG 315	Urban Transportation Geography.	3
GEOG 316	Political Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 331	Urban Social Geography.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 417	Urban Geography.	3

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but courses at the 500-level may not be taken before U3.

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
COMS 425	Urban Culture and Everyday Life.	3

Civil Engineering

Expand allContract all

Course	Title	Credits
CIVE 540	Urban Transportation Planning.	3

History

Expand allContract all

Course	Title	Credits
HIST 353	History of Montreal.	3
HIST 397	Canada: Ethnicity, Migration.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 311	History of the City-Islamic World	3
ISLA 395	Melancholic Migrants	3

Management

Expand allContract all

Course	Title	Credits
FINE 445	Real Estate Finance.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 318	Comparative Local Government.	3
POLI 321	Issues: Canadian Public Policy.	3

Quebec Studies

Expand allContract all

Course	Title	Credits
QCST 200	Introduction to the Study of Quebec.	0-3

Sociology

Expand allContract all

Course	Title	Credits	Expand allContract all	Course	Title	Credits
SOCI 222	Urban Sociology.	3		ATOC 309	Weather Radars and Satellites. ¹	3
SOCI 230	Sociology of Ethnic Relations.	3		GEOG 308	Remote Sensing for Earth Observation. ¹	3
SOCI 333	Social Stratification.	3		GEOG 414	Advanced Geospatial Analysis. ¹	3
SOCI 366	Neighborhoods and Inequality .	3				
SOCI 388	Crime.	3	6 credits selected from:			

Urban Planning
Expand allContract all

Course	Title	Credits	Expand allContract all	Course	Title	Credits
URBP 201	Planning the 21st Century City.	3		ATOC 309	Weather Radars and Satellites. ¹	3
URBP 501	Principles and Practice 1.	2		ESYS 300	Earth Data Analysis.	3
URBP 504	Planning for Active Transportation.	3		GEOG 202	Statistics and Spatial Analysis.	3
URBP 506	Environmental Policy and Planning.	3		GEOG 308	Remote Sensing for Earth Observation. ¹	3
URBP 530	Urban Infrastructure and Services in International Context .	3		GEOG 384	Principles of Geospatial Web.	3
URBP 536	Current Issues in Transportation 1.	2		GEOG 414	Advanced Geospatial Analysis. ¹	3
URBP 537	Current Issues in Transportation 2.	2		GEOG 506	Advanced Geographic Information Science.	3
URBP 551	Urban Design and Planning.	3		GEOG 535	Remote Sensing and Interpretation.	3
URBP 556	Urban Economy: A Spatial Perspective.	3				

GIS and Remote Sensing Minor Concentration (B.A.) (18 credits)

Offered by: Geography (Faculty of Science)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

The Minor Concentration in GIS and Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.

Required Courses (6 credits)

Expand allContract all		
Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 314	Geospatial Analysis.	3

Complementary Courses (12 credits)

3 credits selected from:

Expand allContract all		
Course	Title	Credits
COMP 202	Foundations of Programming.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3

3 credits selected from:

Health Geography Minor Concentration (B.A.) (18 credits)

Offered by: Geography (Faculty of Science)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

There is increasing consensus around the idea that health is not just an expression of individual characteristics but an interaction between the characteristics of the individual and the environments, both physical and social, to which one is exposed over a lifetime of daily living and working. Health outcomes vary dramatically by physical and social characteristics of places both within and between countries and these provide a wedge for our understanding of the factors that might be modified to improve the health of large groups of people. The B.A.; Minor Concentration in Health Geography introduces students to both local and global health issues and provides a skill set in spatial and statistical analyses of diverse health outcomes in populations.

Required Courses (12 credits)

Expand allContract all		
Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 403	Global Health and Environmental Change.	3

Complementary Courses (6 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
GEOG 203	Environmental Systems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 217	Cities in the Modern World.	3

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 503	Advanced Topics in Health Geography. ¹	3
PPHS 501	Population Health and Epidemiology. ¹	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 525	Health Care Systems in Comparative Perspective. ^{1,2}	3
PPHS 529	Global Environmental Health and Burden of Disease.	3
SOCI 309	Health and Illness. ¹	3
SOCI 365	Health and Development.	3
SOCI 525	Health Care Systems in Comparative Perspective. ^{1,2}	3

¹ These courses may have additional prerequisites or restrictions.
² Students can take PPHS 525 Health Care Systems in Comparative Perspective. OR SOCI 525 Health Care Systems in Comparative Perspective.

Geography Major Concentration (B.A.) (37 credits)

Offered by: Geography (Faculty of Arts; Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 37

Program Description

The B.A.; Major Concentration in Geography focuses on the interactions among people, places, and the environment. It includes coursework in human and physical Geography, methodological techniques, and field.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (7 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 216	Geography of the World Economy.	3
GEOG 290	Local Geographical Excursion.	1

Complementary Courses (30 credits)

Physical Geography

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies.	3
GEOG 475	Contested Cities and Urban Activism	3
GEOG 494	Urban Field Studies.	3
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 217	Cities in the Modern World.	3
GEOG 351	Quantitative Methods.	3

Complementary Courses (27 credits)

Statistics

3 credits from:

NOTE: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Course

3 credits selected from:

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies. ¹	3
GEOG 494	Urban Field Studies.	3
GEOG 475	Contested Cities and Urban Activism	3

¹ NOTE: Students may take either GEOG 425 Southeast Asia Urban Field Studies. or GEOG 494 Urban Field Studies., but not both.

Remaining Courses

21 credits selected from the course lists below. Of these 21 credits, at least 15 credits must be at the 300-level or above. At least 6 credits must also be taken outside of Geography.

Geography

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 221	Environment and Health.	3

Course	Title	Credits
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 314	Geospatial Analysis.	3
GEOG 315	Urban Transportation Geography.	3
GEOG 316	Political Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 331	Urban Social Geography.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 417	Urban Geography.	3
GEOG 418	Geographies of Race.	3
GEOG 420	Memory, Place, and Power.	3
GEOG 503	Advanced Topics in Health Geography.	3
GEOG 504	Advanced Economic Geography.	3
GEOG 507	Advanced Social Geography.	3
GEOG 511	Advanced Political Geography.	3
GEOG 525	Asian Cities in the 21st Century.	3
Architecture		
Although Architecture courses have prerequisites, they are waived for Urban Studies students, but 500-level courses may not be taken before the U3.		
Expand allContract all		
Course	Title	Credits
ARCH 517	Sustainable Residential Development.	3
ARCH 528	History of Housing.	3
Art History and Communication Studies		
Expand allContract all		
Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
COMS 425	Urban Culture and Everyday Life.	3
Civil Engineering		
Expand allContract all		
Course	Title	Credits
CIVE 540	Urban Transportation Planning.	3
History		
Expand allContract all		
Course	Title	Credits
HIST 353	History of Montreal.	3
HIST 397	Canada: Ethnicity, Migration.	3
Islamic Studies		
Expand allContract all		
Management		
Expand allContract all		
Course	Title	Credits
ISLA 311	History of the City-Islamic World	3
ISLA 395	Melancholic Migrants	3
Political Science		
Expand allContract all		
Course	Title	Credits
FINE 445	Real Estate Finance.	3
Quebec Studies		
Expand allContract all		
Course	Title	Credits
QCST 200	Introduction to the Study of Quebec.	0-3
Sociology		
Expand allContract all		
Course	Title	Credits
SOCI 222	Urban Sociology.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 333	Social Stratification.	3
SOCI 366	Neighborhoods and Inequality .	3
SOCI 388	Crime.	3
Urban Planning		
Expand allContract all		
Course	Title	Credits
URBP 201	Planning the 21st Century City.	3
URBP 501	Principles and Practice 1.	2
URBP 504	Planning for Active Transportation.	3
URBP 506	Environmental Policy and Planning.	3
URBP 530	Urban Infrastructure and Services in International Context .	3
URBP 536	Current Issues in Transportation 1.	2
URBP 537	Current Issues in Transportation 2.	2
URBP 551	Urban Design and Planning.	3
URBP 556	Urban Economy: A Spatial Perspective.	3
Geography Honours (B.A.) (61 credits)		
Offered by: Geography (Faculty of Science)		
Degree: Bachelor of Arts		
Program credit weight: 61		
Program Description		
The B.A.; Honours Geography program focuses on the interactions among people, places, and the environment. Along with additional course work, the program is distinguished by the Honours project,		

which entails independent, original research conducted over two semesters, normally in the final year of study, under the supervision of a department faculty member.

In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in the Geography Honours program must maintain a program GPA of at least 3.30 to remain in the program and receive an Honours degree.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (19 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 216	Geography of the World Economy.	3
GEOG 290	Local Geographical Excursion.	1
GEOG 351	Quantitative Methods.	3
GEOG 381	Geographic Thought and Practice.	3
GEOG 491D1	Honours Research.	3
GEOG 491D2	Honours Research.	3

Complementary Courses (42 credits)

Introductory Physical Geography

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies.	3
GEOG 475	Contested Cities and Urban Activism	3
GEOG 494	Urban Field Studies.	3
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

Geography

24 credits of Geography (GEOG) courses excluding GEOG 200 Geographical Perspectives: World Environmental Problems, and GEOG 205 Global Change: Past, Present and Future., selected in consultation with the Program Adviser. No more than 6 credits may be taken from 200-level courses.

Outside Geography

9 credits at the 300 or 400 level or above of courses taught by units other than Geography selected from the humanities, social and physical sciences or engineering that have been approved by the Program Adviser as related to the student's focus within Geography.

Urban Studies Honours (B.A.) (60 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

This program exposes students to various approaches to the study of the urban world. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to a range of urban dynamics and the challenges facing contemporary cities around the world, and a variety of methodological approaches. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

The Honours Urban Studies program is more concentrated and focused than the Major Concentration. In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in the Honours Urban Studies must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

For students in the Honours Urban Studies, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found in the Arts guidelines for "Course Requirements".

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 217	Cities in the Modern World.	3
GEOG 351	Quantitative Methods.	3
GEOG 381	Geographic Thought and Practice.	3
GEOG 491D1	Honours Research.	3
GEOG 491D2	Honours Research.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 314	Geospatial Analysis.	3
GEOG 315	Urban Transportation Geography.	3
GEOG 316	Political Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 331	Urban Social Geography.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 417	Urban Geography.	3
GEOG 418	Geographies of Race.	3
GEOG 420	Memory, Place, and Power.	3

Complementary Courses (42 credits)

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Course

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies. ¹	3
GEOG 475	Contested Cities and Urban Activism ¹	3
GEOG 494	Urban Field Studies.	3

¹ NOTE: Students may take either GEOG 425 Southeast Asia Urban Field Studies. or GEOG 494 Urban Field Studies., but not both.

Geography

12 credits selected from the course list below. Of these 12 credits, at least 6 credits must be at the 300-level or above.

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 303	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 314	Geospatial Analysis.	3
GEOG 315	Urban Transportation Geography.	3
GEOG 316	Political Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 331	Urban Social Geography.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 417	Urban Geography.	3
GEOG 418	Geographies of Race.	3
GEOG 420	Memory, Place, and Power.	3

Remaining Courses

18 credits selected from the course lists below. Of these 18 credits, at least 12 credits must be at the 300-level or above. At least 6 credits must also be taken outside of Geography.

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before the U3.

Expand allContract all

Course	Title	Credits
ARCH 517	Sustainable Residential Development.	3
ARCH 528	History of Housing.	3

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
COMS 425	Urban Culture and Everyday Life.	3

Civil Engineering

Expand allContract all

Course	Title	Credits
CIVE 540	Urban Transportation Planning.	3

Geography

Expand allContract all

Course	Title	Credits
GEOG 503	Advanced Topics in Health Geography.	3
GEOG 504	Advanced Economic Geography.	3
GEOG 507	Advanced Social Geography.	3
GEOG 511	Advanced Political Geography.	3
GEOG 512	Advanced Quantitative Methods in Social Field Research.	3
GEOG 525	Asian Cities in the 21st Century.	3

History

Expand allContract all

Course	Title	Credits
HIST 353	History of Montreal.	3
HIST 397	Canada: Ethnicity, Migration.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 395	Melancholic Migrants	3

Management

Expand allContract all

Course	Title	Credits
FINE 445	Real Estate Finance.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 318	Comparative Local Government.	3
POLI 321	Issues: Canadian Public Policy.	3

Quebec Studies

Expand allContract all

Course	Title	Credits
QCST 200	Introduction to the Study of Quebec.	0-3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 222	Urban Sociology.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 333	Social Stratification.	3
SOCI 366	Neighborhoods and Inequality .	3
SOCI 388	Crime.	3

Urban Planning

Expand allContract all

Course	Title	Credits
URBP 201	Planning the 21st Century City.	3
URBP 501	Principles and Practice 1.	2
URBP 504	Planning for Active Transportation.	3
URBP 506	Environmental Policy and Planning.	3
URBP 530	Urban Infrastructure and Services in International Context .	3
URBP 536	Current Issues in Transportation 1.	2
URBP 537	Current Issues in Transportation 2.	2
URBP 551	Urban Design and Planning.	3
URBP 556	Urban Economy: A Spatial Perspective.	3

Additional Courses

6 credits to be taken at the 300-level or above. Courses may be selected from the lists above or from outside the program in consultation with the student's adviser.

Geography Joint Honours Component (B.A.) (37 credits)**Offered by:** Geography (Faculty of Science)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 37**Program Description**

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components of Geography and another Arts discipline. As with the regular Honours program, the Geography component of Joint Honours focuses on the interactions among people, places, and the environment, and requires an Honours project, which entails independent, original research conducted over two semesters, normally in the final year of study, under the supervision of a department faculty member. The requirements for Honours programs vary considerably among units, so students interested in Joint Honours should consult an adviser in each department to discuss their course selection and research project(s).

In addition to the Faculty of Arts requirement that Joint Honours students maintain a CGPA of at least 3.00, students in a Joint Honours Component Geography program must maintain a program GPA of at least 3.30 to remain in the Honours program and receive an Honours degree. In addition to meeting these Geography requirements, students must meet the requirements set forth by the other unit.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 216	Geography of the World Economy.	3
GEOG 290	Local Geographical Excursion.	1
GEOG 351	Quantitative Methods.	3
GEOG 381	Geographic Thought and Practice.	3

Complementary Courses (24 credits)**Introductory Physical Geography**

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1 Joint Honours Research./GEOG 492D2 Joint Honours Research.. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 491D1	Honours Research.	3
GEOG 491D2	Honours Research.	3
GEOG 492D1	Joint Honours Research.	1.5
GEOG 492D2	Joint Honours Research.	1.5

Geography

12-15 credits from a coherent set of Geography (GEOG) courses excluding GEOG 200 Geographical Perspectives: World Environmental Problems. and GEOG 205 Global Change: Past, Present and Future., approved by the Program Adviser. Including a field course is desirable. No more than 6 credits may be taken from 200-level courses.

History Minor Concentration (B.A.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration History introduces students to the study of diverse cultures and societies around the world from antiquity to contemporary times. It is an excellent complement to the major concentrations offered in the Faculty of Arts. The Minor Concentration History is expandable to a Major Concentration History.

Students wishing to complete a history program are encouraged to consult a Program Adviser at the beginning of their first year, and to fill out a departmental program advising/audit form. For more information about the undergraduate programs in history, and for advising information and forms, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Complementary Courses (18 credits)

18 credits of history courses (HIST or Cognate courses - see list below), of which no more than 6 credits may be at the 200-level.

Cognate Courses

The following non-HIST courses may be counted toward the History minor program (max. 3 credits). Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

[Expand all](#)[Contract all](#)

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 312	Modern Jewish History.	3
JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3
RELG 326	Christians in the Roman World.	3

Notes: 200-level cognate courses count toward the 6-credit limit of 200-level courses allowed for the program.

History Major Concentration (B.A.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration History is a highly flexible program that emphasizes both breadth and depth, while introducing students to different historical theories and methodologies. Students select from a wide variety of courses on diverse cultures and societies around the world from antiquity to contemporary times, and also on thematic subjects such history and sexuality, imperialism and colonialism, histories of science, environmental history, and the history of thought and ideas. Students design their program to match their geographic, chronological, thematic or methodological interests.

Students wishing to complete a history program should consult a Program Adviser at the beginning of their first year, and fill out a departmental program advising/audit form. For more information, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the credit requirements for history programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

36 credits of HIST or cognate courses (see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Note: Cognate courses (see below) may not be used to satisfy the Distribution requirement

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 The Historian's Craft. may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Maximum 15 credits of complementary courses at the 200-level.
- Minimum 6 credits of 400- or 500- level courses.

Note: student may use at most 3 credits of HIST 498 Independent Research. or HIST 499 Internship: History. to fulfill this requirement.

Group A

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 211	American History to 1865.	3
HIST 212	Medieval Europe.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
HIST 216	Introduction to Russian History.	3
HIST 221	United States since 1865.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 250	Making Great Britain and Ireland.	3

Group B

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 205	Ancient Mediterranean History.	3
HIST 206	Indian Ocean World History.	3
HIST 208	Introduction to East Asian History.	3
HIST 209	Introduction to South Asian History.	3
HIST 210	Introduction to Latin American History .	3
HIST 218	Modern East Asian History.	3
HIST 275	Ancient Roman History.	3

Group C

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 213	World History, 600-2000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 222	History of Pandemics.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 224	Introduction to the African Diaspora.	3
HIST 238	Histories of Science.	3
HIST 240	Modern History of Islamic Movements.	3
HIST 249	Health and the Healer in Western History.	3
HIST 262	Mediterranean and European Interconnections.	3
HIST 292	History and the Environment.	3
HIST 298AA	Topics in History	3

or HIST 298AB	Introduction to Caribbean History	
HIST 299	The Historian's Craft.	3

Cognate Courses (max. 6 credits)

The following non-HIST courses may be counted toward the History major concentration. Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

Expand allContract all

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 305	Topics in Islamic History.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 311	Gender in Jewish History.	3
JWST 312	Modern Jewish History.	3
JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3

flexibility in choosing courses that match their academic needs and interests. It is designed especially for students who anticipate pursuing graduate studies in history or related disciplines.

Students wishing to complete the Honours History program should consult a Program Adviser at the beginning of their first year to map out a course of study. They should fill out a departmental program advising/audit form. For more information, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
HIST 399	History and Historiography.	3

Complementary Courses (51 credits)

51 credits of HIST or cognate courses (see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Note: Cognate courses (see below) may not be used to satisfy the Distribution requirement.

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 The Historian's Craft. and HIST 399 History and Historiography. may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Minimum 6 credits of honours seminars (500-level D1/D2 courses)
- Minimum 6 additional credits of 400-level or higher HIST courses. A second honours seminar may be used to fulfill this requirement.
- Maximum 18 credits complementary courses at 200-level

GPA requirements:

History Honours (B.A.) (54 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The Honours History program provides in-depth training, with emphasis on historical methods and research, while allowing students

- 3.30 in program courses,
- 3.0 (B) or higher in each program course,
- CGPA 3.0 or higher.

Group A

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 211	American History to 1865.	3
HIST 212	Medieval Europe.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
HIST 216	Introduction to Russian History.	3
HIST 221	United States since 1865.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 250	Making Great Britain and Ireland.	3

Group B

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 205	Ancient Mediterranean History.	3
HIST 206	Indian Ocean World History.	3
HIST 208	Introduction to East Asian History.	3
HIST 209	Introduction to South Asian History.	3
HIST 210	Introduction to Latin American History .	3
HIST 218	Modern East Asian History.	3
HIST 275	Ancient Roman History.	3

Group C

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 213	World History, 600-2000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 222	History of Pandemics.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 224	Introduction to the African Diaspora.	3
HIST 238	Histories of Science.	3
HIST 240	Modern History of Islamic Movements.	3
HIST 249	Health and the Healer in Western History.	3
HIST 262	Mediterranean and European Interconnections.	3
HIST 292	History and the Environment.	3
HIST 299	The Historian's Craft.	3

Cognate Courses (max. 9 credits)

The following non-HIST courses may be counted toward the History honours program. Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

[Expand all](#)[Contract all](#)

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 305	Topics in Islamic History.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 311	Gender in Jewish History.	3
JWST 312	Modern Jewish History.	3
JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3

Notes: 200-level cognate courses count toward the 18-credit limit of 200-level courses allowed for the program.

History Joint Honours Component (B.A.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. The Joint Honours Component History is a flexible program that emphasizes breadth, depth as well as historical methods and research.

Students wishing to complete the Joint Honours History Component should consult a Program Adviser at the beginning of their first year to map out a course of study, and fill out a departmental program advising/audit form. For more information, visit the program's website: <http://www.mcgill.ca/history/undergraduate>. Students must also fulfill program requirements in the second honours component and should consult an adviser in that program.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all		
Course	Title	Credits
HIST 399	History and Historiography.	3

Complementary Courses (33 credits)

33 credits of HIST courses or cognate courses (see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Note: Cognate courses (see below) may not be used to satisfy the Distribution requirement.

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 The Historian's Craft. and HIST 399 History and Historiography. may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Minimum 6 credits of honours seminars (500-level D1/D2 courses)
- Minimum 3 additional credits of 400- or 500-level HIST courses.
- Maximum 12 credits complementary courses at 200-level.

GPA requirements:

- 3.30 in program courses
- 3.0 (B) or higher in each program course
- CGPA 3.0 or higher

Group A

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 211	American History to 1865.	3
HIST 212	Medieval Europe.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
HIST 216	Introduction to Russian History.	3
HIST 221	United States since 1865.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 250	Making Great Britain and Ireland.	3

Group B

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 205	Ancient Mediterranean History.	3
HIST 206	Indian Ocean World History.	3
HIST 208	Introduction to East Asian History.	3
HIST 209	Introduction to South Asian History.	3
HIST 210	Introduction to Latin American History .	3
HIST 218	Modern East Asian History.	3
HIST 275	Ancient Roman History.	3

Group C

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 213	World History, 600-2000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 222	History of Pandemics.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 224	Introduction to the African Diaspora.	3
HIST 238	Histories of Science.	3
HIST 240	Modern History of Islamic Movements.	3
HIST 249	Health and the Healer in Western History.	3
HIST 262	Mediterranean and European Interconnections.	3
HIST 292	History and the Environment.	3
HIST 299	The Historian's Craft.	3

Cognate Courses (max. 6 credits)

The following non-HIST courses may be counted toward the History joint honours component. Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

Expand allContract all

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 305	Topics in Islamic History.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 311	Gender in Jewish History.	3
JWST 312	Modern Jewish History.	3
JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3
RELG 326	Christians in the Roman World.	3

Notes: 200-level cognate courses count toward the 12-credit limit of 200-level courses allowed for the program.

Classics Minor Concentration (B.A.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Classical Studies introduces students to the linguistic, historical and cultural dimensions of Greece and Rome. The Minor Concentration can be expanded to a Major Concentration in Classics.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3

Complementary Courses (15 credits)

15 credits of Classics (CLAS) or related courses according to the following stipulations:

6 credits minimum of Ancient Greek or Latin.

Expand allContract all

Course	Title	Credits
CLAS 210	Introductory Latin 1.	3
CLAS 212	Introductory Latin 2.	3
CLAS 215	Intensive Introductory Latin.	6
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
CLAS 225	Intensive Introductory Ancient Greek.	6
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Minimum 3 credits CLAS courses at the 400-level

NOTE: Maximum 9 credits complementary courses at the 200-level

Note: a maximum total of 6 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

Classics Major Concentration (B.A.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Classical Studies is an in-depth study of ancient Greece and Rome. Two Streams are offered. The Classical Languages stream emphasizes ancient Greek and Latin language, requiring advanced coursework in one or both languages. The Classical Studies stream provides a broad foundation in ancient languages and Greek and Roman literature while allowing students greater flexibility to take a variety of courses in translation.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3

Complementary Courses (33 credits)

33 credits from one of the following two streams.

Classical Languages Stream

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Classical Studies Stream

6 credits in the following:

Expand allContract all

Course	Title	Credits
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 302	Roman Literature and Society.	3

27 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits intermediate Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3

NOTE: Minimum 6 credits 400-level CLAS courses.

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Note: For either stream students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

Classics Honours (B.A.) (54 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The Honours Classics program is designed for students who plan to pursue graduate studies in Classics or related discipline. The program is highly interdisciplinary. It emphasizes the study of ancient Greek and Latin, requiring proficiency in both languages and advanced coursework in at least one, combined with a strong foundation in ancient history, literature and material cultural studies. Honours students are encouraged to begin coursework in both Greek and Latin as soon as possible, and to meet with the classics program adviser to map out their courses and program.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 302	Roman Literature and Society.	3
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 320	Intermediate Ancient Greek 1.	3

CLAS 322	Intermediate Ancient Greek 2.	3	HIST 407	Topics in Ancient History.	3
CLAS 500	Classics Seminar.	3	HIST 450	Ancient History Methods.	3

Complementary Courses (30 credits)

30 credits classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

Minimum 3 credits advanced classical literature courses:

Expand allContract all

Course	Title	Credits
CLAS 400	Ancient Drama and Theatre.	3
CLAS 401	Ancient Comedy.	3
CLAS 402	Hellenistic Literature and Society.	3
CLAS 403	The Greek and Roman Novel.	3
CLAS 405	The Epic Tradition.	3
CLAS 406	Greek and Roman Historiography.	3
CLAS 407	Ancient Lyric and Elegy.	3
CLAS 408	Greek and Roman Oratory.	3
CLAS 409	Ancient Didactic Poetry.	3
CLAS 461	Greco-Roman Religious Literature.	3

Minimum 3 credits courses in ancient history or classical civilization:

Expand allContract all

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 306	Classics in Modern Media.	3
CLAS 308	Gender in the Ancient World.	3
CLAS 404	Classical Tradition.	3
HIST 205	Ancient Mediterranean History.	3
HIST 275	Ancient Roman History.	3
HIST 368	Greek History: Classical Period.	3
HIST 369	Greek History: Early Greece.	3
HIST 375	Rome: Republic to Empire.	3
HIST 376	Fall of the Roman Empire.	3
HIST 391	Rise of Rome.	3
HIST 400	Ancient Greece, Rome and China.	3

Other courses may be counted towards this requirement with the approval of the program adviser.

Minimum 3 credits in classical art or archaeology:

Course	Title	Credits
ARTH 209	Introduction to Ancient Art and Architecture.	3
CLAS 240	Introduction to Classical Archaeology.	3
CLAS 341	Life in the Ancient Greek and Roman City	3
CLAS 348	Topics: Classical Archaeology.	3
CLAS 349	Archaeology Fieldwork: Italy.	3
CLAS 342	People and Environment in the Ancient World	3

Other courses may be counted towards this requirement with the approval of the program adviser.

NOTE: Maximum 18 credits of complementary courses at the 200 level.

Note: a maximum total of 18 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

Classics Joint Honours Component (B.A.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes the study of ancient

Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or for graduate programs that require proficiency in ancient languages.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3
CLAS 310	Intermediate Latin 1.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 500	Classics Seminar.	3

Complementary Courses (24 credits)

24 credits of Classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Maximum 15 credits complementary courses at the 200 level.

NOTE: Maximum 9 credits of non-CLAS courses.

Note: students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

South Asian Studies Minor Concentration (B.A.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.: Minor Concentration in South Asian Studies offers breadth and depth on the history, literature, languages, politics, religions, cultures, and societies of South Asia. The minor concentration is divided into two streams, "Culture and Civilization" and "Languages." An interdisciplinary curriculum is collaboratively offered by the Department of Anthropology, English, History and Classical Studies, Political Science, and Sociology, the Institute of Islamic Studies, and the School of Religious Studies, and is complemented by language instruction in Persian, Sanskrit, Tibetan, and Urdu-Hindi.

Complementary Courses (18 credits)

18 credits from one of the following streams:

Stream 1: Culture and Civilization

Note: As course content may change according to the offering unit's yearly curriculum, all classes listed must be approved in consultation with the South Asian Studies adviser as relevant to the Minor Concentration. Students should refer to the Course Catalogue to confirm any prerequisites for the following courses.

Introductory Curriculum

6 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 327	Anthropology of South Asia.	3
ANTH 361	Archaeology of South Asia.	3
ENGL 297	Special Topics of Literary Study.	3
HIST 209	Introduction to South Asian History.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 395	Melancholic Migrants	3
POLI 322	Political Change in South Asia.	3
RELG 252	Hinduism and Buddhism.	3
RELG 254	Introduction to Yoga Traditions.	3

Intermediate and Advanced Curriculum

12 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 308	Political Anthropology 01.	3
ANTH 510	Advanced Problems in Anthropology of Religion.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 404	Studies in 19th Century Literature 1.	3
ENGL 408	The 20th Century.	3
HIST 341	Themes in South Asian History.	3
HIST 435	Topics in South Asian History.	3
HIST 481	History of Bangladesh and Pakistan.	3
ISLA 305	Topics in Islamic History.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3

			Course	Title	Credits
ISLA 489	Special Topics 6.	3	ISLA 241D1	Introductory Persian.	3
ISLA 555	Urdu Poetry.	3	ISLA 241D2	Introductory Persian.	3
ISLA 581	Special Topics 1.	3	ISLA 342D1	Lower Intermediate Persian.	3
POLI 423	Politics of Ethno-Nationalism.	3	ISLA 342D2	Lower Intermediate Persian.	3
POLI 435	Identity and Inequality.	3	ISLA 443D1	Upper Intermediate Persian.	3
RELG 288	Introduction to Sikhism.	3	ISLA 443D2	Upper Intermediate Persian.	3
RELG 344	Mahayana Buddhism.	3	ISLA 545	Advanced Persian 1.	3
RELG 348	Classical Hinduism.	3	ISLA 546	Advanced Persian 2.	3
RELG 350	Bhakti Hinduism.	3			
RELG 353	Gandhi: His Life and Thought.	3			
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 372	Hindu Goddesses.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 444	Indian Ocean Religious Networks.	3			
RELG 453	Vajrayana Buddhism.	3			
RELG 544	Ethnography as Method in Religious Studies.	3			
RELG 545	Ramayana: Multiple Lives.	3			
RELG 547	Special Topics in Hinduism.	3			
RELG 548	Indian Buddhist Philosophy.	3			
RELG 551	Special Topics in Buddhism.	3			
RELG 552	Advaita Vedanta.	3			
RELG 556	Issues in Buddhist Studies.	3			
RELG 558	Indian Tantric Traditions.	3			
RELG 560	Buddhist Poetry.	3			
SOCI 370	Sociology: Gender and Development.	3			
SOCI 550	Developing Societies.	3			

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Students may apply up to 6 credits in South Asian language study, with approval from the adviser.

Stream 2: Language

Either 18 credits in one of the following languages: Persian, Sanskrit, Tibetan, or Urdu-Hindi, from the courses listed below.

Or 18 credits of combined language study from courses listed below, consisting of 6 credits of one of Persian, Sanskrit, Tibetan, or Urdu-Hindi and 12 credits of another South Asian language from the courses listed below.

Note: Students should refer to the Course Catalogue to confirm any prerequisites for the following courses.

Persian

Expand allContract all

Sanskrit

Expand allContract all

		Course	Title	Credits
RELG 257D1	Introductory Sanskrit.	3		
RELG 257D2	Introductory Sanskrit.	3		
RELG 357D1	Sanskrit 2.	3		
RELG 357D2	Sanskrit 2.	3		
RELG 457D1	Advanced Sanskrit.	3		
RELG 457D2	Advanced Sanskrit.	3		

Tibetan

Expand allContract all

		Course	Title	Credits
RELG 264	Introductory Tibetan 1.	3		
RELG 265	Introductory Tibetan 2.	3		
RELG 364	Intermediate Tibetan 1.	3		
RELG 365	Intermediate Tibetan 2.	3		
RELG 464	Advanced Tibetan 1.	3		
RELG 465	Advanced Tibetan 2.	3		

Urdu-Hindi

Expand allContract all

		Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3		
ISLA 251D2	Introductory Urdu-Hindi.	3		
ISLA 352D1	Intermediate Urdu-Hindi.	3		
ISLA 352D2	Intermediate Urdu-Hindi.	3		
ISLA 553	Advanced Urdu-Hindi 1.	3		
ISLA 554	Advanced Urdu-Hindi 2.	3		

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Canadian Studies Minor Concentration (B.A.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This interdisciplinary program focuses on different aspects of Canada and its key institutions, with an emphasis on public affairs. The Minor Concentration enables students to take courses about Canada outside the areas of their other major or minor concentrations.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3

Complementary Courses (12 credits)

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
FREN 252	Littérature québécoise.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
INDG 200	Introduction to Indigenous Studies.	3
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
QCST 200	Introduction to the Study of Quebec.	0-3
SOCI 230	Sociology of Ethnic Relations.	3

3-9 credits in interdisciplinary Canadian Studies (CANS) courses from:

Expand allContract all

Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 307	Canada in the World.	3
CANS 308	Sex and Gender in Canada.	3
CANS 310	Canadian Cultures: Context and Issues.	3
CANS 311	Topics in Canadian Public Affairs 1.	3
CANS 312	Topics in Canadian Public Affairs 2.	3

CANS 315	Indigenous Art and Culture.	3
CANS 401	Canadian Studies Seminar 1.	3
CANS 402	Canadian Studies Seminar 2.	3
CANS 404	Canadian Studies Seminar 4.	3
CANS 405	Canadian Studies Seminar 5.	3
CANS 406	Canadian Studies Seminar 6.	3
CANS 413	Canada and Quebec Seminar.	3
CANS 499	Internship - Canadian Studies.	3

0-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 357	Cultural Diversity in Canada.	3
HIST 363	Canada 1870-1914.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 417	Health Care in Canada.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Canadian Studies Major Concentration (B.A.) (36 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Canadian Studies is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it relates to social and cultural issues and debates in the Canadian context and the responses and actions taken or needed to be taken. The program draws on interdisciplinary perspectives incorporating research and approaches from both the humanities and the social sciences.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3

Complementary Courses (30 credits)

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 306	Topics in Indigenous Public Affairs .	3
INDG 200	Introduction to Indigenous Studies.	3

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 440	Contemporary Issues in Quebec.	3

Or another undergraduate-level 3-credit focused on Quebec.

200 Level

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
FREN 252	Littérature québécoise.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
INDG 200	Introduction to Indigenous Studies.	3

POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
SOCI 230	Sociology of Ethnic Relations.	3

300-400 Levels

9-15 credits in the interdisciplinary Canadian Studies (CANS) courses chosen from:

Expand allContract all		
Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 307	Canada in the World.	3
CANS 308	Sex and Gender in Canada.	3
CANS 310	Canadian Cultures: Context and Issues.	3
CANS 311	Topics in Canadian Public Affairs 1.	3
CANS 312	Topics in Canadian Public Affairs 2.	3
CANS 315	Indigenous Art and Culture.	3
CANS 401	Canadian Studies Seminar 1.	3
CANS 402	Canadian Studies Seminar 2.	3
CANS 404	Canadian Studies Seminar 4.	3
CANS 405	Canadian Studies Seminar 5.	3
CANS 406	Canadian Studies Seminar 6.	3
CANS 408	Individual Reading Course.	3
CANS 413	Canada and Quebec Seminar.	3
CANS 499	Internship - Canadian Studies.	3

6-12 credits chosen from:

Expand allContract all		
Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 357	Cultural Diversity in Canada.	3
HIST 363	Canada 1870-1914.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3

			Course	Title	Credits
POLI 372	Indigenous Peoples and the Canadian State.	3	CANS 306	Topics in Indigenous Public Affairs .	3
POLI 417	Health Care in Canada.	3	INDG 200	Introduction to Indigenous Studies.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3			
QCST 300	Quebec Culture and Society.	3		3 credits chosen from:	
QCST 440	Contemporary Issues in Quebec.	3		Expand allContract all	
SOCI 375	Suspect Minorities in Canada.	3	Course	Title	Credits
SOCI 475	Canadian Ethnic Studies Seminar.	3	CANS 413	Canada and Quebec Seminar.	3

Canadian Studies Honours (B.A.) (54 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The B.A.; Honours in Canadian Studies is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it relates to social and cultural issues and debates in the Canadian context, and the responses and actions taken or needed to be taken. The program draws on interdisciplinary perspectives incorporating research and approaches from both the humanities and the social sciences.

Students with a GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Honours program. Application deadlines are December 15 and May 15. Forms are available on the McGill Institute for the Study of Canada (MISC) website.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3
CANS 480	Honours Thesis 1.	3
CANS 481	Honours Thesis 2.	3

Complementary Courses (42 credits)

3 credits chosen from:

Expand allContract all

3 credits chosen from:	
Expand allContract all	

CANS 413	Canada and Quebec Seminar.	3	Students who wish to study at the Honours level in two disciplines can combine Joint Honours components from any two Arts disciplines.
CANS 499	Internship - Canadian Studies.	3	Students with a minimum program GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Joint Honours. Application deadlines are December 25 and May 15. Forms are available on the McGill Institute for the Study of Canada (MISC) website.

12-18 credits chosen from:

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 357	Cultural Diversity in Canada.	3
HIST 363	Canada 1870-1914.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 417	Health Care in Canada.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Canadian Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Joint Honours - Canadian Studies Component is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it relates to social and cultural issues and debates in the Canadian context, and the responses and actions taken or needed to be taken.

3 Students who wish to study at the Honours level in two disciplines can combine Joint Honours components from any two Arts disciplines. Students with a minimum program GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Joint Honours. Application deadlines are December 25 and May 15. Forms are available on the McGill Institute for the Study of Canada (MISC) website.

12-18 credits chosen from:

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 357	Cultural Diversity in Canada.	3
HIST 363	Canada 1870-1914.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 417	Health Care in Canada.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Degree Requirements – B.A. students
To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3
CANS 492	Joint Honours Thesis.	3

Complementary Courses (27 credits)

3 credits chosen from:

Course	Title	Credits
CANS 306	Topics in Indigenous Public Affairs .	3
INDG 200	Introduction to Indigenous Studies.	3

3 credits chosen from:

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 440	Contemporary Issues in Quebec.	3

Or another undergraduate-level 3-credit course focused on Quebec.

200 Level

6 credits chosen from:

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
FREN 252	Littérature québécoise.	3
HIST 202	Survey: Canada to 1867.	3

HIST 203	Survey: Canada since 1867.	3	POLI 372	Indigenous Peoples and the Canadian State.	3
INDG 200	Introduction to Indigenous Studies.	3	POLI 417	Health Care in Canada.	3
POLI 221	Government of Canada.	3	POLI 426	Partis politiques et comportements électoraux au Québec.	3
POLI 222	Political Process and Behaviour in Canada.	3	QCST 300	Quebec Culture and Society.	3
SOCI 230	Sociology of Ethnic Relations.	3	QCST 440	Contemporary Issues in Quebec.	3
			SOCI 375	Suspect Minorities in Canada.	3
			SOCI 475	Canadian Ethnic Studies Seminar.	3

300 and 400 levels

6-12 credits in interdisciplinary Canadian Studies (CANS) courses chosen from:

Expand allContract all		Credits
Course	Title	
CANS 300	Topics in Canadian Studies 1.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 307	Canada in the World.	3
CANS 308	Sex and Gender in Canada.	3
CANS 310	Canadian Cultures: Context and Issues.	3
CANS 311	Topics in Canadian Public Affairs 1.	3
CANS 312	Topics in Canadian Public Affairs 2.	3
CANS 315	Indigenous Art and Culture.	3
CANS 401	Canadian Studies Seminar 1.	3
CANS 402	Canadian Studies Seminar 2.	3
CANS 404	Canadian Studies Seminar 4.	3
CANS 405	Canadian Studies Seminar 5.	3
CANS 406	Canadian Studies Seminar 6.	3
CANS 408	Individual Reading Course.	3
CANS 413	Canada and Quebec Seminar.	3
CANS 499	Internship - Canadian Studies.	3

6-12 credits chosen from:

Expand allContract all		Credits
Course	Title	
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3

Indigenous Studies Minor Concentration (B.A.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

Expand allContract all		Credits
Course	Title	
INDG 200	Introduction to Indigenous Studies.	3
INDG 401	Interdisciplinary Seminar in Indigenous Studies.	3

Complementary Courses (12 credits)

A maximum of 3 complementary course credits at the 200-level. A maximum of 6 credits from any given discipline with the exception of Indigenous Studies (INDG) courses.

Anthropology

Expand allContract all		Credits
Course	Title	
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 436	North American Native Peoples.	3

Canadian Studies

Expand allContract all		Credits
Course	Title	
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 315	Indigenous Art and Culture.	3

English

Expand allContract all

Course	Title	Credits
ENGL 297	Special Topics of Literary Study.	3
ENGL 440	First Nations and Inuit Literature and Media.	3

Gender, Sexuality, and Feminist Studies

Expand allContract all

Course	Title	Credits
GSFS 307	Indigenous Feminisms.	3

Geography

Expand allContract all

Course	Title	Credits
GEOG 301	Geography of Nunavut.	3

History

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 303	History of Quebec.	3
HIST 333	Indigenous Peoples and French.	3
HIST 361AA	Topics in Canadian Regional History.	3
HIST 363	Canada 1870-1914.	3
HIST 408	Selected Topics in Indigenous History .	3

Indigenous Studies

Expand allContract all

Course	Title	Credits
INDG 202	Topics in Indigenous Studies 1.	3
INDG 300	Topics in Indigenous Studies 2.	3
INDG 301	Indigenous Contemporary Resistance.	3
INDG 302	Introduction to Kanien'kéha 1	3
INDG 400	Seminar: Indigenous Studies.	3
INDG 420	Indigenous Food Sovereignty.	3
INDG 450	Rotinonhsón:ni Land-Based Pedagogy.	3

Interdisciplinary Field Course

Expand allContract all

Course	Title	Credits
IDFC 500	Indigenous Field Studies.	3

Law

Expand allContract all

Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3

Linguistics

Expand allContract all

Course	Title	Credits
LING 211	Introduction to Indigenous Languages.	3
LING 411	Structure of an Indigenous Language.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3

Quebec Studies and Community-Engaged Learning Minor Concentration (B.A.) / La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire (B.A.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire a pour but de donner à l'étudiant(e) une connaissance interdisciplinaire des réalités historiques et contemporaines du Québec en complémentarité à sa propre discipline de spécialisation tout en misant sur un apprentissage par engagement communautaire en milieu montréalais. En collaboration avec le Social Equity and Diversity Education (SEDE) Office, les étudiants ont ainsi la possibilité, grâce à un stage, de mettre en pratique le contenu d'enseignement des cours au sein d'un organisme communautaire montréalais. Enjeux liés à l'équité, à la diversité et à l'inclusion en contexte montréalais.

The goal of the Minor Concentration Quebec Studies and Community-Engaged Learning is to give students an interdisciplinary overview of Quebec historical and contemporary realities that is complementary to their degree by taking advantage of a community engagement learning approach within the Montreal community. With the collaboration of the Social Equity and Diversity Education (SEDE) Office, students have the possibility to link the academic course content with a hands-on experience within a Montreal community organization. Equity, diversity and inclusion issues within the Montreal context.

Required Courses / Cours Obligatoires (9 credits)

De façon usuelle, les cours obligatoires (9 crédits) sont complétés selon la séquence suivante : QCST 200 Introduction to the Study of Quebec. (3 crédits) en U0 ou U1, QCST 300 Quebec Culture and Society. (3 crédits) en U1 et QCST 440 Contemporary Issues in Quebec. (3 crédits) en U2 ou en U3. Les cours complémentaires (9 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (9 credits) are completed in the following order: QCST 200 Introduction to the Study of Quebec. (3

credits) in U0 or U1, QCST 300 Quebec Culture and Society. (3 credits) in U1 and QCST 440 Contemporary Issues in Quebec. (3 credits) in U2 or in U3. The complementary courses (9 credits) can be completed in U1, U2, or U3.

Expand allContract all

Course	Title	Credits
QCST 200	Introduction to the Study of Quebec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3

Complementary Courses / Cours Complémentaires (9 credits)

De ces 9 crédits, 6 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 6 des 9 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 9 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 9 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

Expand allContract all

Course	Title	Credits
FREN 252	Littérature québécoise.	3
POLI 226	La vie politique québécoise.	3
POLI 336	Le Québec et le Canada.	3

Anthropology / Anthropologie

Expand allContract all

Course	Title	Credits
ANTH 436	North American Native Peoples.	3

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
COMS 510	Canadian Broadcasting Policy.	3

Canadian Studies / Études sur le Canada

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 405	Canadian Studies Seminar 5.	3

English / Anglais

Expand allContract all

Course	Title	Credits
ENGL 313	Canadian Drama and Theatre.	3

Environment

Expand allContract all

Course	Title	Credits
ENVR 380	Topics in Environment 1.	3

French Language and Literature / Langue et littérature françaises

Expand allContract all

Course	Title	Credits
FREN 252	Littérature québécoise.	3
FREN 315	Cinéma québécois.	3
FREN 450	Questions de littérature québécoise.	3
FREN 595	Séminaire avancé de recherche.	3

History / Histoire

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 333	Indigenous Peoples and French.	3
HIST 335	Science and Medicine in Canada.	3
HIST 353	History of Montreal.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Political Science / Science politique

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 417	Health Care in Canada.	3

Expand allContract all

POLI 426	Partis politiques et comportements électoraux au Québec.	3
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Sociology / Sociologie

Expand allContract all

Course	Title	Credits
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

International Development Studies Minor Concentration (B.A.) (18 credits)

Offered by: Inst for the St of Development (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The B.A.; Minor Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, and key development-related themes.

NOTE: At least 9 of the 18 credits must be at the 300 level or above.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3

Complementary Courses (9 credits)

Thematic

9 credits from the following:

African Studies

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Expand allContract all

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Expand allContract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 206	Environment and Culture.	3
ANTH 207	Ethnography Through Film.	3
ANTH 209	Anthropology of Religion.	3
ANTH 212	Anthropology of Development.	3
ANTH 214	Violence, Warfare, Culture.	3
ANTH 222	Legal Anthropology.	3
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 304	Chinese Culture in Ethnography and Film.	3
ANTH 308	Political Anthropology 01.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 339	Ecological Anthropology.	3
ANTH 343	Anthropology and the Animal.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 418	Environment and Development.	3
ANTH 438	Topics in Medical Anthropology.	3
ANTH 512	Political Ecology.	3
ANTH 575	Concepts of Race.	3

Canadian Studies

Expand allContract all

Course	Title	Credits
CANS 315	Indigenous Art and Culture.	3

East Asian Studies

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 213	Introduction: East Asian Culture: Korea.	3
EAST 515	Seminar: Beyond Orientalism.	3

Economics

Expand allContract all

Course	Title	Credits	HIST 223	Indigenous Peoples and Empires.	3
ECON 209	Macroeconomic Analysis and Applications.	3	HIST 240	Modern History of Islamic Movements.	3
ECON 223	Political Economy of Trade Policy.	3	HIST 317	Themes in Indian Ocean World History.	3
ECON 314	Economic Development 2.	3	HIST 326	History of the Soviet Union.	3
ECON 326	Ecological Economics.	3	HIST 328	Themes in Modern Chinese History.	3
ECON 347	Economics of Climate Change.	3	HIST 333	Indigenous Peoples and French.	3
ECON 416	Topics in Economic Development 2.	3	HIST 338	Twentieth-Century China.	3
ECON 473	Income Distribution.	3	HIST 340	History of Modern Egypt.	3
English			HIST 341	Themes in South Asian History.	3
Expand allContract all			HIST 361AA	Topics in Canadian Regional History.	3
Course	Title	Credits	HIST 363	Canada 1870-1914.	3
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 366	Themes in Latin American History.	3
ENGL 440	First Nations and Inuit Literature and Media.	3	HIST 382	History of South Africa.	3
Epidemiology and Biostatistics			HIST 389AA	Topics: African Country Survey	3
Expand allContract all			HIST 408	Selected Topics in Indigenous History .	3
Course	Title	Credits	HIST 409AA	Topics in Latin American History.	3
PPHS 511	Fundamentals of Global Health.	3	HIST 439	History of Women in China.	3
Geography			HIST 528	Indian Ocean World Slave Trade.	3
Expand allContract all			Indigenous Studies		
Course	Title	Credits	Expand allContract all		
GEOG 216	Geography of the World Economy.	3	Course	Title	Credits
GEOG 217	Cities in the Modern World.	3	INDG 200	Introduction to Indigenous Studies.	3
GEOG 221	Environment and Health.	3	INDG 420	Indigenous Food Sovereignty.	3
GEOG 302	Environmental Management 1.	3	International Development Studies		
GEOG 303	Health Geography.	3	Expand allContract all		
GEOG 310	Development and Livelihoods.	3	Course	Title	Credits
GEOG 311	Economic Geography.	3	INTD 350	Culture and Development.	3
GEOG 325	New Master-Planned Cities.	3	INTD 352	Disasters and Development .	3
GEOG 360	Analyzing Sustainability.	3	INTD 354	Civil Society and Development .	3
GEOG 403	Global Health and Environmental Change.	3	INTD 356	Quantitative Methods for Development .	3
GEOG 408	Geography of Development.	3	INTD 358	Ethnographic Approaches to Development .	3
GEOG 409	Geographies of Developing Asia.	3	INTD 360	Environmental Challenges in Development.	3
GEOG 418	Geographies of Race.	3	INTD 397AA	Topics in International Development	3
GEOG 425	Southeast Asia Urban Field Studies.	3	or INTD 397AB	Topics in International Development.	3
GEOG 510	Humid Tropical Environments.	3		Topics in Conflict and Development.	3
History			or INTD 398AB	Topics in Conflict and Development.	3
Expand allContract all				Development Research Project.	3
Course	Title	Credits	INTD 490	Development Research Project.	3
HIST 200	Introduction to African History.	3	INTD 499	Internship: International Development Studies.	3
HIST 201	Modern African History.	3	Islamic Studies		
HIST 206	Indian Ocean World History.	3	Expand allContract all		
HIST 208	Introduction to East Asian History.	3	Course	Title	Credits
HIST 209	Introduction to South Asian History.	3	ISLA 200	Islamic Civilization.	3
HIST 210	Introduction to Latin American History .	3	ISLA 210	Muslim Societies.	3
HIST 213	World History, 600-2000.	3	ISLA 305	Topics in Islamic History.	3
HIST 218	Modern East Asian History.	3			

ISLA 310	Women in Islam.	0-3	Political Science		
ISLA 311	History of the City-Islamic World	3	Expand allContract all		
ISLA 325	Introduction to Shi'i Islam.	3	Course	Title	Credits
ISLA 330	Islamic Mysticism: Sufism.	3	POLI 227	Introduction to Comparative Politics - Global South.	3
ISLA 355	Modern History of the Middle East.	3	POLI 243	International Politics of Economic Relations.	3
ISLA 360	Islam and Politics in Africa	3	POLI 244	International Politics: State Behaviour.	3
ISLA 365	Middle East Since the 1970's.	3	POLI 245	Introduction aux relationsinternationales.	3
ISLA 370	The Qur'an: History and Interpretation.	3	POLI 319	Politics of Latin America.	3
ISLA 383	Central Questions in Islamic Law.	3	POLI 322	Political Change in South Asia.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3	POLI 324	Comparative Politics of Africa.	3
ISLA 388	Persian Literature.	3	POLI 338	Topics in Comparative Politics 1.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3	POLI 340	Comparative Politics of the Middle East.	3
ISLA 392	Arabic Literature as World Literature.	3	POLI 341	Foreign Policy: The Middle East.	3
ISLA 411	History: Middle-East 1918-1945.	3	POLI 345	International Organizations.	3
ISLA 415	Modern Iran: Anthropological Approach.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3	POLI 349	Foreign Policy: Asia.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3	POLI 350	Global Environmental Politics.	3
			POLI 352	International Policy/Foreign Policy: Africa.	3
			POLI 359	Topics in International Politics 1.	3
			POLI 369	Politics of Southeast Asia.	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3	POLI 372	Indigenous Peoples and the Canadian State.	3
			POLI 380	Contemporary Chinese Politics.	3
			POLI 381	Politics in Japan and South Korea.	3
			POLI 423	Politics of Ethno-Nationalism.	3
			POLI 435	Identity and Inequality.	3
			POLI 441	International Political Economy: Trade.	3
MGCR 382	International Business.	3	POLI 442	International Relations of Ethnic Conflict.	3
			POLI 445	International Political Economy: Monetary Relations.	3
ORGBC 380	Cross Cultural Management.	3	POLI 450	Peacebuilding.	3
			POLI 476	Religion and Politics.	3

Latin American & Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3
		POLI 369
		POLI 372
		POLI 380
		POLI 381
		POLI 423
		POLI 435
		POLI 441
		POLI 442
		POLI 445
		POLI 450
		POLI 476

Management Core

Expand allContract all

Course	Title	Credits
MGCR 382	International Business.	3

Management, Organizational Behaviour

Expand allContract all

Course	Title	Credits
ORGBC 380	Cross Cultural Management.	3

Management Policy

Expand allContract all

Course	Title	Credits
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MSUS 402	Systems Thinking and Sustainability.	3

Nutrition

Expand allContract all

Course	Title	Credits
NUTR 501	Nutrition in the Majority World.	3

Religious Studies

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 331	Religion and Globalization.	3
RELG 370	Religion and Human Rights.	3
RELG 375	Religion, Politics and Society.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 234	Population and Society.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 307	Globalization.	3

SOCI 309	Health and Illness.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 550	Developing Societies.	3

Social Work

Expand allContract all

Course	Title	Credits
SWRK 400	Policy and Practice for Refugees.	3
SWRK 532	International Social Work.	3

Urban Planning

Expand allContract all

Course	Title	Credits
URBP 530	Urban Infrastructure and Services in International Context .	3

International Development Studies Major Concentration (B.A.) (36 credits)

Offered by: Inst for the St of Development (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36

Program Description

The B.A.; Major Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Course Selection Guidelines for the Overall Program

- At least 18 of the 36 credits must be at the 300 level or above.
- At least 9 credits must be from INTD courses.
- Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3
INTD 497AA	Advanced Topics in International Development.	3
or INTD 497AB	Advanced Topics in International Development.	
or INTD 497AC	Advanced topics in International Development	
or INTD 497AD	Advanced topics in International Development	

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 207	Ethnography Through Film.	3
ANTH 212	Anthropology of Development.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
INTD 350	Culture and Development.	3

Politics, Society and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relationsinternationales.	3
SOCI 254	Development and Underdevelopment.	3

Methods

3-6 credits from the following:

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 358	The Process of Anthropological Research.	3

Economics

Expand allContract all

Course	Title	Credits	ANTH 222	Legal Anthropology.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ECON 227D1	Economic Statistics.	3	ANTH 227	Medical Anthropology.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ECON 227D2	Economic Statistics.	3	ANTH 302	New Horizons in Medical Anthropology.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ECON 437	Methods for Causal Inference.	3	ANTH 304	Chinese Culture in Ethnography and Film.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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INTD 358	Ethnographic Approaches to Development .	3	ANTH 322	Social Change in Modern Africa.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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POLI 210	Political Science Research Methods.	3	ANTH 327	Anthropology of South Asia.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SOCI 461	Quantitative Data Analysis.	3	ANTH 343	Anthropology and the Animal.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
SOCI 477	Qualitative Methods in Sociology.	3	ANTH 355	Theories of Culture and Society.	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_...																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Course	Title	Credits		
PPHS 511	Fundamentals of Global Health.	3	or HIST 409AB	Topics in Latin American History.
			HIST 439	History of Women in China. 3
			HIST 528	Indian Ocean World Slave Trade. 3
Geography				
Expand allContract all				
Course	Title	Credits		
GEOG 221	Environment and Health.	3		Indigenous Studies
GEOG 302	Environmental Management 1.	3		Expand allContract all
GEOG 303	Health Geography.	3	Course	Title
GEOG 310	Development and Livelihoods.	3	INDG 200	Introduction to Indigenous Studies. 3
GEOG 311	Economic Geography.	3	INDG 420	Indigenous Food Sovereignty. 3
GEOG 325	New Master-Planned Cities.	3		
GEOG 360	Analyzing Sustainability.	3		International Development Studies
GEOG 403	Global Health and Environmental Change.	3		Expand allContract all
GEOG 408	Geography of Development.	3	Course	Title
GEOG 409	Geographies of Developing Asia.	3	INTD 250	History of Development. 3
GEOG 418	Geographies of Race.	3	INTD 350	Culture and Development. 3
GEOG 425	Southeast Asia Urban Field Studies.	3	INTD 352	Disasters and Development . 3
GEOG 510	Humid Tropical Environments.	3	INTD 354	Civil Society and Development . 3
			INTD 360	Environmental Challenges in Development. 3
			INTD 397AA	Topics in International Development 3
			or INTD 397AB	Topics in International Development. 3
History				
Expand allContract all				
Course	Title	Credits		
HIST 200	Introduction to African History.	3	INTD 398AA	Topics in Conflict and Development. 3
HIST 201	Modern African History.	3	or INTD 398AB	Topics in Conflict and Development. 3
HIST 206	Indian Ocean World History.	3	INTD 490	Development Research Project. 3
HIST 208	Introduction to East Asian History.	3	INTD 499	Internship: International Development Studies. 3
HIST 209	Introduction to South Asian History.	3		
HIST 210	Introduction to Latin American History .	3	Islamic Studies	
HIST 213	World History, 600-2000.	3	Expand allContract all	
HIST 218	Modern East Asian History.	3	Course	Title
HIST 223	Indigenous Peoples and Empires.	3	ISLA 200	Islamic Civilization. 3
HIST 240	Modern History of Islamic Movements.	3	ISLA 210	Muslim Societies. 3
HIST 317	Themes in Indian Ocean World History.	3	ISLA 305	Topics in Islamic History. 3
HIST 326	History of the Soviet Union.	3	ISLA 310	Women in Islam. 0-3
HIST 328	Themes in Modern Chinese History.	3	ISLA 311	History of the City-Islamic World 3
HIST 333	Indigenous Peoples and French.	3	ISLA 325	Introduction to Shi'i Islam. 3
HIST 338	Twentieth-Century China.	3	ISLA 330	Islamic Mysticism: Sufism. 3
HIST 340	History of Modern Egypt.	3	ISLA 355	Modern History of the Middle East. 3
HIST 341	Themes in South Asian History.	3	ISLA 360	Islam and Politics in Africa 3
HIST 361AA	Topics in Canadian Regional History.	3	ISLA 365	Middle East Since the 1970's. 3
HIST 363	Canada 1870-1914.	3	ISLA 370	The Qur'an: History and Interpretation. 3
HIST 366	Themes in Latin American History.	3	ISLA 383	Central Questions in Islamic Law. 3
HIST 382	History of South Africa.	3	ISLA 385	Poetics and Politics in Arabic Literature. 3
HIST 389AA	Topics: African Country Survey	3	ISLA 388	Persian Literature. 3
HIST 408	Selected Topics in Indigenous History .	3	ISLA 390	Islamic Reform and Radicalism: Middle East 3
HIST 409AA	Topics in Latin American History.	3	ISLA 392	Arabic Literature as World Literature. 3
			ISLA 411	History: Middle-East 1918-1945. 3
			ISLA 415	Modern Iran: Anthropological Approach. 3

ISLA 421	Islamic Culture - Indian Subcontinent.	3	POLI 372	Indigenous Peoples and the Canadian State.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3	POLI 380	Contemporary Chinese Politics.	3

Latin American & Caribbean Studies

Expand allContract all

Course	Title	Credits			
LACS 497	Research Seminar: Latin America and the Caribbean.	3	POLI 423	Politics of Ethno-Nationalism.	3
			POLI 435	Identity and Inequality.	3
			POLI 441	International Political Economy: Trade.	3
			POLI 442	International Relations of Ethnic Conflict.	3
			POLI 445	International Political Economy: Monetary Relations.	3
			POLI 450	Peacebuilding.	3
			POLI 476	Religion and Politics.	3

¹ When topic is relevant to IDS.

Management Core

Expand allContract all

Course	Title	Credits			
MGCR 382	International Business.	3			

Management, Organizational Behaviour

Expand allContract all

Course	Title	Credits			
ORGB 380	Cross Cultural Management.	3			

Management Policy

Expand allContract all

Course	Title	Credits			
MGPO 435	The Origins of Capitalism.	3			
MGPO 438	Social Entrepreneurship and Innovation.	3			
MGPO 440	Strategies for Sustainability.	3			
MGPO 469	Managing Globalization.	3			
MGPO 475	Strategies for Developing Countries.	3			
MSUS 402	Systems Thinking and Sustainability.	3			

Nutrition

Expand allContract all

Course	Title	Credits			
NUTR 501	Nutrition in the Majority World.	3			

Political Science

Expand allContract all

Course	Title	Credits			
POLI 319	Politics of Latin America.	3			
POLI 322	Political Change in South Asia.	3			
POLI 324	Comparative Politics of Africa.	3			
POLI 338	Topics in Comparative Politics 1.	3			
POLI 340	Comparative Politics of the Middle East.	3			
POLI 341	Foreign Policy: The Middle East.	3			
POLI 345	International Organizations.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			
POLI 349	Foreign Policy: Asia.	3			
POLI 350	Global Environmental Politics.	3			
POLI 352	International Policy/Foreign Policy: Africa.	3			
POLI 359	Topics in International Politics 1.	3			
POLI 369	Politics of Southeast Asia.	3			

International Development Studies Honours (B.A.) (57 credits)

Offered by: Inst for the St of Development (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 57

Program Description

The B.A.; Honours in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Honours students must maintain a CGPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

- At least 30 of the 57 credits must be at the 300 level or above; 9 credits of these must be at the 400 level or above.
- At least 12 credits must be from INTD courses.
- Students cannot take more than 18 credits in any discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3
INTD 498AA or INTD 498AB	Honours Seminar in International Development .	3

Complementary Courses (45 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 207	Ethnography Through Film.	3
ANTH 212	Anthropology of Development.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
INTD 350	Culture and Development.	3

Politics, Society and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relationsinternationales.	3
SOCI 254	Development and Underdevelopment.	3

Methods

6-9 credits from the following:

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 358	The Process of Anthropological Research.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 437	Methods for Causal Inference.	3

International Development Studies

Expand allContract all

Course	Title	Credits
INTD 356	Quantitative Methods for Development .	3
INTD 358	Ethnographic Approaches to Development .	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Sociology

Expand allContract all

Course	Title	Credits			Credits
SOCI 350	Statistics in Social Research.	3	ANTH 512	Political Ecology.	3
SOCI 461	Quantitative Data Analysis.	3	ANTH 575	Concepts of Race.	3
SOCI 477	Qualitative Methods in Sociology.	3			

When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study//faculties/arts/undergraduate/ug_arts_course.

Thematic

30-33 credits from the following:

African Studies

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Expand allContract all

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Expand allContract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 209	Anthropology of Religion.	3
ANTH 214	Violence, Warfare, Culture.	3
ANTH 222	Legal Anthropology.	3
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 304	Chinese Culture in Ethnography and Film.	3
ANTH 308	Political Anthropology 01.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 339	Ecological Anthropology.	3
ANTH 343	Anthropology and the Animal.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 418	Environment and Development.	3
ANTH 438	Topics in Medical Anthropology.	3

Canadian Studies

Expand allContract all

Course	Title	Credits
CANS 315	Indigenous Art and Culture.	3

East Asian Studies

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 213	Introduction: East Asian Culture: Korea.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 515	Seminar: Beyond Orientalism.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 223	Political Economy of Trade Policy.	3
ECON 314	Economic Development 2.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 416	Topics in Economic Development 2.	3
ECON 473	Income Distribution.	3

English

Expand allContract all

Course	Title	Credits
ENGL 290	Postcolonial and World Literatures in English.	3
ENGL 440	First Nations and Inuit Literature and Media.	3

Epidemiology and Biostatistics

Expand allContract all

Course	Title	Credits
PPHS 511	Fundamentals of Global Health.	3

Geography

Expand allContract all

Course	Title	Credits
GEOG 221	Environment and Health.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 418	Geographies of Race.	3

GEOG 425	Southeast Asia Urban Field Studies.	3	INTD 397AA or INTD 397AB	Topics in International Development Topics in International Development.	3
GEOG 510	Humid Tropical Environments.	3	INTD 398AA or INTD 398AB	Topics in Conflict and Development. Topics in Conflict and Development.	3
History <small>Expand all Contract all</small>					
Course	Title	Credits			
HIST 200	Introduction to African History.	3	INTD 490	Development Research Project.	3
HIST 201	Modern African History.	3	INTD 491	Honours Thesis.	3
HIST 206	Indian Ocean World History.	3	INTD 497AA	Advanced Topics in International Development.	3
HIST 208	Introduction to East Asian History.	3	or INTD 497AB	Advanced Topics in International Development.	
HIST 209	Introduction to South Asian History.	3	or INTD 497AC	Advanced topics in International Development	
HIST 210	Introduction to Latin American History .	3	or INTD 497AD	Advanced topics in International Development	
HIST 213	World History, 600-2000.	3	INTD 499	Internship: International Development Studies.	3
HIST 218	Modern East Asian History.	3			
HIST 223	Indigenous Peoples and Empires.	3			
HIST 240	Modern History of Islamic Movements.	3			
HIST 317	Themes in Indian Ocean World History.	3			
HIST 326	History of the Soviet Union.	3			
HIST 328	Themes in Modern Chinese History.	3			
HIST 333	Indigenous Peoples and French.	3			
HIST 338	Twentieth-Century China.	3			
HIST 340	History of Modern Egypt.	3			
HIST 341	Themes in South Asian History.	3			
HIST 361AA	Topics in Canadian Regional History.	3			
HIST 363	Canada 1870-1914.	3			
HIST 366	Themes in Latin American History.	3			
HIST 382	History of South Africa.	3			
HIST 389AA	Topics: African Country Survey	3			
HIST 408	Selected Topics in Indigenous History .	3			
HIST 409AA	Topics in Latin American History.	3			
or HIST 409AB	Topics in Latin American History.				
HIST 439	History of Women in China.	3			
HIST 528	Indian Ocean World Slave Trade.	3			
Indigenous Studies <small>Expand all Contract all</small>					
Course	Title	Credits			
INDG 200	Introduction to Indigenous Studies.	3	ISLA 200	Islamic Civilization.	3
INDG 420	Indigenous Food Sovereignty.	3	ISLA 210	Muslim Societies.	3
			ISLA 305	Topics in Islamic History.	3
			ISLA 310	Women in Islam.	0-3
			ISLA 311	History of the City-Islamic World	3
			ISLA 325	Introduction to Shi'i Islam.	3
			ISLA 330	Islamic Mysticism: Sufism.	3
			ISLA 355	Modern History of the Middle East.	3
			ISLA 360	Islam and Politics in Africa	3
			ISLA 365	Middle East Since the 1970's.	3
			ISLA 370	The Qur'an: History and Interpretation.	3
			ISLA 383	Central Questions in Islamic Law.	3
			ISLA 385	Poetics and Politics in Arabic Literature.	3
			ISLA 388	Persian Literature.	3
			ISLA 390	Islamic Reform and Radicalism: Middle East	3
			ISLA 392	Arabic Literature as World Literature.	3
			ISLA 411	History: Middle-East 1918-1945.	3
			ISLA 415	Modern Iran: Anthropological Approach.	3
			ISLA 421	Islamic Culture - Indian Subcontinent.	3
			ISLA 430	Islamdom: Baghdad to Cordoba .	3
International Development Studies <small>Expand all Contract all</small>					
Course	Title	Credits			
INTD 250	History of Development.	3	LACS 497	Research Seminar: Latin America and the Caribbean.	3
INTD 350	Culture and Development.	3			
INTD 352	Disasters and Development .	3			
INTD 354	Civil Society and Development .	3			
INTD 360	Environmental Challenges in Development.	3			
				¹ When topic is relevant to IDS	

Management Core

Expand allContract all

Course	Title	
MGCR 382	International Business.	

POLI 445	International Political Economy: Monetary Relations.	3
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POLI 450	Peacebuilding.	3
POLI 476	Religion and Politics.	3

Management, Organizational Behaviour

Expand allContract all

Course	Title	
ORGB 380	Cross Cultural Management.	

Religious Studies

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 331	Religion and Globalization.	3
RELG 370	Religion and Human Rights.	3
RELG 375	Religion, Politics and Society.	3

Management Policy

Expand allContract all

Course	Title		Credits
MGPO 435	The Origins of Capitalism.		3
MGPO 438	Social Entrepreneurship and Innovation.		3
MGPO 440	Strategies for Sustainability.		3
MGPO 469	Managing Globalization.		3
MGPO 475	Strategies for Developing Countries.		3
MSUS 402	Systems Thinking and Sustainability.		3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 234	Population and Society.	3
SOCI 307	Globalization.	3
SOCI 309	Health and Illness.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 550	Developing Societies.	3

Nutrition

Expand allContract all

Course	Title	
NUTR 501	Nutrition in the Majority World.	

Political Science

Expand allContract all

Course	Title		Credits
POLI 319	Politics of Latin America.		3
POLI 322	Political Change in South Asia.		3
POLI 324	Comparative Politics of Africa.		3
POLI 338	Topics in Comparative Politics 1.		3
POLI 340	Comparative Politics of the Middle East.		3
POLI 341	Foreign Policy: The Middle East.		3
POLI 345	International Organizations.		3
POLI 347	Arab-Israel Conflict, Crisis, Peace.		3
POLI 349	Foreign Policy: Asia.		3
POLI 350	Global Environmental Politics.		3
POLI 352	International Policy/Foreign Policy: Africa.		3
POLI 353	Politics of the International Refugee Regime.		3
POLI 359	Topics in International Politics 1.		3
POLI 369	Politics of Southeast Asia.		3
POLI 372	Indigenous Peoples and the Canadian State.		3
POLI 380	Contemporary Chinese Politics.		3
POLI 381	Politics in Japan and South Korea.		3
POLI 422	Advanced Topics in Comparative Politics 1.		3
POLI 423	Politics of Ethno-Nationalism.		3
POLI 435	Identity and Inequality.		3
POLI 441	International Political Economy: Trade.		3
POLI 442	International Relations of Ethnic Conflict.		3

Urban Planning

Expand allContract all

Course	Title	Credits
URBP 530	Urban Infrastructure and Services in International Context .	3

International Development Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Inst for the St of Development (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36

Program Description

The B.A.; Honours in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Honours students must maintain a CGPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

- At least 18 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
- At least 12 credits must be from INTD courses.
- Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

NOTE: Students in the Econ-IDS Joint Honours program are required to take ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. and therefore cannot also take ECON 227D1 Economic Statistics. /ECON 227D2 Economic Statistics.as part of their IDS program requirements.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3
INTD 498AA or INTD 498AB	Honours Seminar in International Development .	3

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 207	Ethnography Through Film.	3
ANTH 212	Anthropology of Development.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
INTD 350	Culture and Development.	3

Politics, Society and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relationsinternationales.	3
SOCI 254	Development and Underdevelopment.	3

Methods (6 credits)

6 credits from the following:

When selecting the Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 358	The Process of Anthropological Research.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 437	Methods for Causal Inference.	3

International Development Studies

Expand allContract all

Course	Title	Credits
INTD 356	Quantitative Methods for Development .	3
INTD 358	Ethnographic Approaches to Development .	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 477	Qualitative Methods in Sociology.	3

Thematic (12 credits)

12 credits from the following:

African Studies

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Expand allContract all

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Expand allContract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 209	Anthropology of Religion.	3
ANTH 214	Violence, Warfare, Culture.	3
ANTH 222	Legal Anthropology.	3
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 304	Chinese Culture in Ethnography and Film.	3
ANTH 308	Political Anthropology 01.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 339	Ecological Anthropology.	3
ANTH 343	Anthropology and the Animal.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 418	Environment and Development.	3
ANTH 438	Topics in Medical Anthropology.	3
ANTH 512	Political Ecology.	3
ANTH 575	Concepts of Race.	3

Canadian Studies

Expand allContract all

Course	Title	Credits
CANS 315	Indigenous Art and Culture.	3

East Asian Studies

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 213	Introduction: East Asian Culture: Korea.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 515	Seminar: Beyond Orientalism.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 223	Political Economy of Trade Policy.	3
ECON 314	Economic Development 2.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 416	Topics in Economic Development 2.	3
ECON 473	Income Distribution.	3

English

Expand allContract all

Course	Title	Credits
ENGL 290	Postcolonial and World Literatures in English.	3
ENGL 440	First Nations and Inuit Literature and Media.	3

Epidemiology and Biostatistics

Expand allContract all

Course	Title	Credits
PPHS 511	Fundamentals of Global Health.	3

Geography

Expand allContract all

Course	Title	Credits
GEOG 221	Environment and Health.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 418	Geographies of Race.	3
GEOG 425	Southeast Asia Urban Field Studies.	3
GEOG 510	Humid Tropical Environments.	3

History

Expand allContract all

Course	Title	Credits		
HIST 200	Introduction to African History.	3	INTD 398AA or INTD 397AB	Topics in International Development.
HIST 201	Modern African History.	3	or INTD 398AB	Topics in Conflict and Development.
HIST 206	Indian Ocean World History.	3	INTD 490	Development Research Project.
HIST 208	Introduction to East Asian History.	3	INTD 491	Honours Thesis.
HIST 209	Introduction to South Asian History.	3	INTD 497AA	Advanced Topics in International Development.
HIST 210	Introduction to Latin American History .	3	or INTD 497AB	Advanced Topics in International Development.
HIST 213	World History, 600-2000.	3	or INTD 497AC	Advanced topics in International Development
HIST 218	Modern East Asian History.	3	or INTD 497AD	Advanced topics in International Development
HIST 223	Indigenous Peoples and Empires.	3	INTD 499	Internship: International Development Studies.
HIST 240	Modern History of Islamic Movements.	3		
HIST 317	Themes in Indian Ocean World History.	3		
HIST 326	History of the Soviet Union.	3		
HIST 328	Themes in Modern Chinese History.	3		
HIST 333	Indigenous Peoples and French.	3		
HIST 338	Twentieth-Century China.	3		
HIST 340	History of Modern Egypt.	3		
HIST 341	Themes in South Asian History.	3		
HIST 360	Latin America since 1825.	3		
HIST 361AA	Topics in Canadian Regional History.	3		
HIST 363	Canada 1870-1914.	3		
HIST 366	Themes in Latin American History.	3		
HIST 382	History of South Africa.	3		
HIST 389AA	Topics: African Country Survey	3		
HIST 408	Selected Topics in Indigenous History .	3		
HIST 409AA	Topics in Latin American History.	3		
or HIST 409AB	Topics in Latin American History.			
HIST 439	History of Women in China.	3		
HIST 528	Indian Ocean World Slave Trade.	3		

Indigenous Studies

Expand allContract all

Course	Title	Credits	
INDG 200	Introduction to Indigenous Studies.	3	
INDG 420	Indigenous Food Sovereignty.	3	

International Development Studies

Expand allContract all

Course	Title	Credits	
INTD 250	History of Development.	3	
INTD 350	Culture and Development.	3	
INTD 352	Disasters and Development .	3	
INTD 354	Civil Society and Development .	3	
INTD 360	Environmental Challenges in Development.	3	
INTD 397AA	Topics in International Development	3	

Latin American & Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

¹ When topic is relevant to IDS.**Management Core**

Expand allContract all

Course	Title	Credits	POLI 450	Peacebuilding.	3
MGCR 382	International Business.	3	POLI 476	Religion and Politics.	3
Management, Organizational Behaviour					
Expand allContract all					
Course	Title	Credits	RELG 253	Religions of East Asia.	3
ORGB 380	Cross Cultural Management.	3	RELG 309	World Religions and Cultures They Create..	3
Management Policy					
Expand allContract all					
Course	Title	Credits	RELG 331	Religion and Globalization.	3
MGPO 435	The Origins of Capitalism.	3	RELG 370	Religion and Human Rights.	3
MGPO 438	Social Entrepreneurship and Innovation.	3	RELG 375	Religion, Politics and Society.	3
MGPO 440	Strategies for Sustainability.	3			
MGPO 469	Managing Globalization.	3	Sociology		
MGPO 475	Strategies for Developing Countries.	3	Expand allContract all		
MGPO 402	Dynamic Cities.	3	Course	Title	Credits
Nutrition					
Expand allContract all					
Course	Title	Credits	SOCI 212	International Migration.	3
NUTR 501	Nutrition in the Majority World.	3	SOCI 234	Population and Society.	3
Political Science					
Expand allContract all					
Course	Title	Credits	SOCI 307	Globalization.	3
POLI 319	Politics of Latin America.	3	SOCI 309	Health and Illness.	3
POLI 322	Political Change in South Asia.	3	SOCI 370	Sociology: Gender and Development.	3
POLI 324	Comparative Politics of Africa.	3	SOCI 400	Comparative Migration and Citizenship.	3
POLI 338	Topics in Comparative Politics 1.	3	SOCI 446	Colonialism and Society.	3
POLI 340	Comparative Politics of the Middle East.	3	SOCI 519	Gender and Globalization.	3
POLI 341	Foreign Policy: The Middle East.	3	SOCI 520	Migration and Immigrant Groups.	3
POLI 345	International Organizations.	3	SOCI 550	Developing Societies.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	Social Work		
POLI 349	Foreign Policy: Asia.	3	Expand allContract all		
POLI 350	Global Environmental Politics.	3	Course	Title	Credits
POLI 352	International Policy/Foreign Policy: Africa.	3	SWRK 400	Policy and Practice for Refugees.	3
POLI 359	Topics in International Politics 1.	3	SWRK 532	International Social Work.	3
POLI 369	Politics of Southeast Asia.	3			
POLI 372	Indigenous Peoples and the Canadian State.	3	Urban Planning		
POLI 380	Contemporary Chinese Politics.	3	Expand allContract all		
POLI 381	Politics in Japan and South Korea.	3	Course	Title	Credits
POLI 422	Advanced Topics in Comparative Politics 1.	3	URBP 530	Urban Infrastructure and Services in International Context .	3
POLI 423	Politics of Ethno-Nationalism.	3			
POLI 435	Identity and Inequality.	3	African Studies Minor Concentration (B.A.) (18 credits)		
POLI 441	International Political Economy: Trade.	3			
POLI 442	International Relations of Ethnic Conflict.	3			
POLI 445	International Political Economy: Monetary Relations.	3			

African Studies Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 598	Research Seminar in African Studies.	3

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

3 credits from:

Expand allContract all

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
POLI 324	Comparative Politics of Africa.	3

Group B

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

African Studies

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
AFRI 480	Honours Thesis.	3
AFRI 481	Special Topics 1.	3
AFRI 499	Arts Internships: African Studies.	3
HIST 579D1	Seminar: African History.	3
HIST 579D2	Seminar: African History.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 416	Environment/Development: Africa.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
ECON 416	Topics in Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature. ¹	3
ENGL 352	Theories of Difference. ¹	3
ENGL 421	African Literature.	3

¹

Note: Course is counted only when African materials are taught.

Geography

Expand allContract all

Course	Title	Credits
GEOG 216	Geography of the World Economy.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 404	Environmental Management 2.	3
GEOG 408	Geography of Development.	3
GEOG 416	Africa South of the Sahara.	3

History

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 381	Colonial Africa.	3
HIST 382	History of South Africa.	3
HIST 498	Independent Research.	3
HIST 528	Indian Ocean World Slave Trade.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 360	Islam and Politics in Africa	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 530	Advanced Sufism	3

Political Science

Expand allContract all

Course	Title	Credits	
POLI 227	Introduction to Comparative Politics - Global South.	3	21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.
POLI 324	Comparative Politics of Africa.	3	If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.
POLI 522	Seminar: Comparative Politics 1. ¹	3	

¹ Note: Course is counted only when African materials are taught.

Sociology

Expand allContract all

Course	Title	Credits
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 446	Colonialism and Society.	3
SOCI 484	Emerging Democratic States.	3
SOCI 550	Developing Societies.	3

African Studies Major Concentration (B.A.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 598	Research Seminar in African Studies.	3

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

Group A

9 credits from:

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
POLI 324	Comparative Politics of Africa.	3

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
AFRI 480	Honours Thesis.	3
AFRI 481	Special Topics 1.	3
AFRI 499	Arts Internships: African Studies.	3
HIST 579D1	Seminar: African History.	3
HIST 579D2	Seminar: African History.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 416	Environment/Development: Africa.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
ECON 416	Topics in Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits			
ENGL 320	Postcolonial Literature. ¹	3	SOCI 484	Emerging Democratic States.	3
ENGL 352	Theories of Difference.	3	SOCI 550	Developing Societies.	3
ENGL 421	African Literature.	3			

¹ Note: Course is counted only when African materials are taught.

Geography

Expand allContract all

Course	Title	Credits			
GEOG 216	Geography of the World Economy.	3			
GEOG 403	Global Health and Environmental Change.	3			
GEOG 404	Environmental Management 2.	3			
GEOG 408	Geography of Development.	3			
GEOG 416	Africa South of the Sahara.	3			

History

Expand allContract all

Course	Title	Credits			
HIST 200	Introduction to African History.	3			
HIST 201	Modern African History.	3			
HIST 381	Colonial Africa.	3			
HIST 382	History of South Africa.	3			
HIST 498	Independent Research.	3			
HIST 528	Indian Ocean World Slave Trade.	3			

Islamic Studies

Expand allContract all

Course	Title	Credits			
ISLA 221D1	Introductory Arabic.	4.5			
ISLA 221D2	Introductory Arabic.	4.5			
ISLA 360	Islam and Politics in Africa	3			
ISLA 375	Sufi Women	3			
ISLA 410	History: Middle-East 1798-1918.	3			
ISLA 530	Advanced Sufism	3			

Political Science

Expand allContract all

Course	Title	Credits			
POLI 227	Introduction to Comparative Politics - Global South.	3			
POLI 324	Comparative Politics of Africa.	3			
POLI 522	Seminar: Comparative Politics 1.	3			

¹ Note: Course is counted only when African materials are taught.

Sociology

Expand allContract all

Course	Title	Credits			
SOCI 365	Health and Development.	3			
SOCI 370	Sociology: Gender and Development.	3			
SOCI 446	Colonialism and Society.	3			

African Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours program in African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable). Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations a minimum CGPA of 3.00 in general.

At least 9 of the 36 credits must be at the 400 level or above.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

Required Courses (9 credits)

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 480	Honours Thesis. ¹	3
AFRI 598	Research Seminar in African Studies.	3

¹ Honours Thesis course must be taken for the AFRI Joint Honours component. Students must meet the specific requirements regarding Thesis credits of their second program in addition to the AFRI 480 Honours Thesis. Honours Thesis.

Complementary Courses (27 credits)

Group A

9 credits from:

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3

HIST 201	Modern African History.	3	GEOG 451	Research in Society and Development in Africa. ¹	3
POLI 324	Comparative Politics of Africa.	3	GEOG 493	Health and Environment in Africa.	3

Group B

18 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
AFRI 481	Special Topics 1.	3
AFRI 499	Arts Internships: African Studies.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 222	Legal Anthropology.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 416	Environment/Development: Africa.	3
ANTH 451	Research in Society and Development in Africa.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature. ¹	3
ENGL 352	Theories of Difference.	3
ENGL 421	African Literature.	3

¹ Note: Course is counted only when African materials are taught.

Geography

Expand allContract all

Course	Title	Credits
GEOG 216	Geography of the World Economy.	3
GEOG 302	Environmental Management 1.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development. ¹	3
GEOG 416	Africa South of the Sahara. ¹	3
GEOG 423	Dilemmas of Development.	3

¹ Note: Normally offered as field courses (in African Studies Field Semester)

History

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 382	History of South Africa.	3
HIST 498	Independent Research.	3
HIST 528	Indian Ocean World Slave Trade.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 360	Islam and Politics in Africa	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 530	Advanced Sufism	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 324	Comparative Politics of Africa. ¹	3
POLI 522	Seminar: Comparative Politics 1.	3

¹ Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Political Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Political Science students.

Sociology

Expand allContract all

Course	Title	Credits
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 446	Colonialism and Society.	3
SOCI 484	Emerging Democratic States.	3
SOCI 550	Developing Societies.	3

Arabic Language Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The Minor Concentration in Arabic Language provides students with comprehensive training in listening, speaking, reading, and writing in Arabic.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Arabic language (3 levels) from the list below.

In the case of Introductory Arabic (9 credits), the extra 3 credits will be counted as electives.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian Language Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The Minor Concentration in Persian Language provides students with comprehensive training in listening, speaking, reading, and writing in Persian.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Persian language (3 levels) from the list below.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish Language Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The Minor Concentration in Turkish Language provides students with comprehensive training in listening, speaking, reading, and writing in Turkish.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Turkish language (3 levels) from the list below.

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 434D1	Higher Intermediate Turkish.	3
ISLA 434D2	Higher Intermediate Turkish.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu Language Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The Minor Concentration in Urdu Language provides students with comprehensive training in listening, speaking, reading, and writing in Urdu.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Urdu language (3 levels) from the list below:

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

World Islamic and Middle East Studies Minor Concentration (B.A.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the languages, textual traditions, and social life of Muslims across different times and places.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits at the 200 level, in non-language ISLA courses;

6 credits at the 300 level and Higher, in non-language ISLA courses;

9 credits at any level. If non-language courses are selected, no more than 6 credits in non-language courses overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

Non-Language Courses (9-18 credits)

ISLA 200-Level

3 credits from:

Expand allContract all

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3

ISLA 300 Level and Higher

6 credits from:

Expand allContract all

Course	Title	Credits
ISLA 300	Special Topics 7.	3
ISLA 305	Topics in Islamic History.	3
ISLA 310	Women in Islam.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 320	Art of Islam.	3
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 370	The Qur'an: History and Interpretation.	3
ISLA 375	Sufi Women	3
ISLA 380	Islamic Philosophy and Theology.	3
ISLA 383	Central Questions in Islamic Law.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3
ISLA 388	Persian Literature.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 392	Arabic Literature as World Literature.	3
ISLA 395	Melancholic Migrants	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 415	Modern Iran: Anthropological Approach.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 488	Tales of Wonder-Islamic World.	3
ISLA 489	Special Topics 6.	3
ISLA 499	World Islamic and Middle East Studies Internship.	3
ISLA 502	Art in the Age of Empires.	3
ISLA 505	Islam: Origin and Early Development.	3
ISLA 506	Revolutions: Arab Middle East and North Africa.	3

ISLA 511	Medieval Islam, 10th-12th Century.	3	RELG 307	Bible, Quran and Interpretations.	3
ISLA 512	Art of the Ottoman Empire.	3	RELG 309	World Religions and Cultures They Create..	3
ISLA 515	The Medieval School in Islam.	3	RELG 440	Global Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3			
ISLA 530	Advanced Sufism	3			
ISLA 555	Urdu Poetry.	3			
ISLA 580	Ottoman Institutions.	3			
ISLA 581	Special Topics 1.	3			
ISLA 582	Special Topics 2.	3			
ISLA 585	Arab Women's Literature.	3			

Non-ISLA Courses

0-9 credits from:

Expand allContract all			Course Title Credits		
Course	Title	Credits	Course	Title	Credits
ANTH 209	Anthropology of Religion.	3	ISLA 221D1	Introductory Arabic.	4.5
ANTH 318	Globalization and Religion.	3	ISLA 221D2	Introductory Arabic.	4.5
ANTH 327	Anthropology of South Asia.	3	ISLA 322D1	Lower Intermediate Arabic.	3
HIST 209	Introduction to South Asian History.	3	ISLA 322D2	Lower Intermediate Arabic.	3
HIST 240	Modern History of Islamic Movements.	3	ISLA 322	Lower Intermediate Arabic.	6
HIST 305	Themes in Middle East History	3	ISLA 423D1	Higher Intermediate Arabic.	3
HIST 340	History of Modern Egypt.	3	ISLA 423D2	Higher Intermediate Arabic.	3
HIST 341	Themes in South Asian History.	3	ISLA 524	Advanced Arabic 1.	3
HIST 435	Topics in South Asian History.	3	ISLA 525	Advanced Arabic 2.	3
HIST 446	Topics in Middle East History.	3	ISLA 526	Colloquial Arabic.	3
JWST 220D1	Introductory Hebrew.	3			
JWST 220D2	Introductory Hebrew.	3			
JWST 245	Jewish Life in the Islamic World.	3			
JWST 261	History of Jewish Philosophy and Thought.	3			
JWST 312	Modern Jewish History.	3			
JWST 320D1	Intermediate Hebrew.	3			
JWST 320D2	Intermediate Hebrew.	3			
JWST 323	The Israeli Novel.	3			
JWST 334	Jews and Muslims: A Modern History.	3			
JWST 338	Jewish Philosophy and Thought 2.	3			
JWST 340D1	Advanced Hebrew.	3			
JWST 340D2	Advanced Hebrew.	3			
JWST 348	Modern Jewish Studies.	3			
JWST 366	History of Zionism.	3			
JWST 367	Hebrew through Israeli Cinema.	3			
JWST 370	Israeli Popular Culture.	3			
PHIL 356	Early Medieval Philosophy.	3			
POLI 340	Comparative Politics of the Middle East.	3			
POLI 341	Foreign Policy: The Middle East.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			
RELG 204	Judaism, Christianity and Islam.	3			

ISLA Language Courses

0-9 credits in one or more language(s) from:

Arabic

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 322	Lower Intermediate Arabic.	6
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3

ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

World Islamic and Middle East Studies Major Concentration (B.A.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in [Degree Requirements for the Faculty of Arts](#).

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu. One level is 6 credits. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits may count toward the 6-9 credits at any level category of the complementary courses' requirement.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

21-24 credits (21 if the extra Introductory Arabic credits are used) of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits of 200-level non-language ISLA courses;

6 credits of 300-level non-language ISLA courses;

6 credits of 400-/500-level non-language ISLA courses;

6-9 credits at any level, including more language courses, but no more than 6 non-language credits overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

Languages (Two levels)

12 credits from:

Arabic

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 434D1	Higher Intermediate Turkish.	3
ISLA 434D2	Higher Intermediate Turkish.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3

ISLA 554	Advanced Urdu-Hindi 2.	3	ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 555	Urdu Poetry.	3	ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 200-Level					
3 credits from:					
Expand all Contract all					
Course	Title	Credits	ISLA 488	Tales of Wonder-Islamic World.	3
ISLA 200	Islamic Civilization.	3	ISLA 489	Special Topics 6.	3
ISLA 210	Muslim Societies.	3	ISLA 502	Art in the Age of Empires.	3
			ISLA 505	Islam: Origin and Early Development.	3
			ISLA 506	Revolutions: Arab Middle East and North Africa.	3
			ISLA 511	Medieval Islam, 10th-12th Century.	3

ISLA 200-Level

3 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits	
ISLA 200	Islamic Civilization.	3	ISLA 505 Islamic Origin and Early Development.
ISLA 210	Muslim Societies.	3	ISLA 506 Revolutions: Arab Middle East and North Africa.
			ISLA 511 Medieval Islam, 10th-12th Century.

ISLA 300-Level

6 credits from:

Expand allContract all

Course	Title	Credits			
ISLA 300	Special Topics 7.	3	ISLA 530	Advanced Sufism	3
ISLA 305	Topics in Islamic History.	3	ISLA 555	Urdu Poetry.	3
ISLA 310	Women in Islam.	3	ISLA 580	Ottoman Institutions.	3
ISLA 311	History of the City-Islamic World	3	ISLA 581	Special Topics 1.	3
ISLA 315	Ottoman State and Society to 1839.	3	ISLA 582	Special Topics 2.	3
			ISLA 585	Arab Women's Literature.	3

Non-ISLA Courses

0-9 credits from:

ISLA 355	Modern History of the Middle East.	3	Expand all	Contract all	
ISLA 360	Islam and Politics in Africa	3	Course	Title	Credits
ISLA 365	Middle East Since the 1970's.	3	ANTH 209	Anthropology of Religion.	3
ISLA 370	The Qur'an: History and Interpretation.	3	ANTH 318	Globalization and Religion.	3
ISLA 375	Sufi Women	3	ANTH 327	Anthropology of South Asia.	3
ISLA 380	Islamic Philosophy and Theology.	3	HIST 209	Introduction to South Asian History.	3
ISLA 383	Central Questions in Islamic Law.	3	HIST 240	Modern History of Islamic Movements.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3	HIST 305	Themes in Middle East History	3
ISLA 388	Persian Literature.	3	HIST 340	History of Modern Egypt.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3	HIST 341	Themes in South Asian History.	3
ISLA 392	Arabic Literature as World Literature.	3	HIST 435	Topics in South Asian History.	3
ISLA 395	Melancholic Migrants	3	HIST 446	Topics in Middle East History.	3
ISLA 499	World Islamic and Middle East Studies Internship.	3	HIST 591D1	Modern Middle East History.	3

¹ As per course restriction, ISLA 499 World Islamic and Middle East Studies Internship, does not fulfil ISLA 400-/500-level requirements.

ISLA 400-/500-Level

6 credits from:

Expand all Contract all

Course	Title	Credits	JWST 320D2	Intermediate Hebrew.	3
ISLA 410	History: Middle-East 1798-1918.	3	JWST 323	The Israeli Novel.	3
ISLA 411	History: Middle-East 1918-1945.	3	JWST 334	Jews and Muslims: A Modern History.	3
ISLA 415	Modern Iran: Anthropological Approach.	3	JWST 338	Jewish Philosophy and Thought 2.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3	JWST 340D1	Advanced Hebrew.	3

JWST 340D2	Advanced Hebrew.	3	18-21 credits (3 levels) in one language: Arabic, Persian, Turkish, or Urdu (lists below). One level is 6 credits. In the case of Arabic, the first three levels involve 21 credits. The extra 3 credits may count toward the 9-12 credits at any level category of the complementary courses' requirement.
JWST 348	Modern Jewish Studies.	3	
JWST 366	History of Zionism.	3	
JWST 367	Hebrew through Israeli Cinema.	3	
JWST 370	Israeli Popular Culture.	3	NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.
PHIL 356	Early Medieval Philosophy.	3	
POLI 340	Comparative Politics of the Middle East.	3	33-36 credits (33 if Introductory Arabic has been chosen and the 3 extra credits are counted), distributed as follows:
POLI 341	Foreign Policy: The Middle East.	3	
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	3 credits of 100-/200-level non-language ISLA courses;
RELG 204	Judaism, Christianity and Islam.	3	12 credits of 300-level non-language ISLA courses;
RELG 307	Bible, Quran and Interpretations.	3	9 credits of 400-/500-level non-language ISLA courses;
RELG 309	World Religions and Cultures They Create..	3	
RELG 440	Global Islam.	3	9-12 credits at any level, including more language courses, but no more than 9 non-language credits overall at the 100-/200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

World Islamic and Middle East Studies Honours (B.A.) (60 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

Honours students must maintain a program GPA of 3.30 in their World Islamic and Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ISLA 495	World Islamic and Middle East Studies Research Seminar.	3
ISLA 496	Independent Reading and Research.	3

Complementary Courses (54 credits)

54 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

Arabic

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits			
ISLA 232D1	Introductory Turkish.	3	ISLA 383	Central Questions in Islamic Law.	3
ISLA 232D2	Introductory Turkish.	3	ISLA 385	Poetics and Politics in Arabic Literature.	3
ISLA 333D1	Lower Intermediate Turkish.	3	ISLA 388	Persian Literature.	3
ISLA 333D2	Lower Intermediate Turkish.	3	ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 434D1	Higher Intermediate Turkish.	3	ISLA 392	Arabic Literature as World Literature.	3
ISLA 434D2	Higher Intermediate Turkish.	3	ISLA 395	Melancholic Migrants	3
ISLA 535D1	Advanced Turkish.	3	ISLA 499	World Islamic and Middle East Studies Internship.	3
ISLA 535D2	Advanced Turkish.	3			
ISLA 560	Ottoman Turkish	3			

Urdu

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

Non-Language Courses**ISLA 200-Level**

3 credits from:

Expand allContract all

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3

ISLA 300-Level

12 credits from:

Expand allContract all

Course	Title	Credits			
ISLA 300	Special Topics 7.	3	ISLA 530	Advanced Sufism	3
ISLA 305	Topics in Islamic History.	3	ISLA 555	Urdu Poetry.	3
ISLA 310	Women in Islam.	3	ISLA 580	Ottoman Institutions.	3
ISLA 311	History of the City-Islamic World	3	ISLA 581	Special Topics 1.	3
ISLA 315	Ottoman State and Society to 1839.	3	ISLA 582	Special Topics 2.	3
ISLA 320	Art of Islam.	3	ISLA 585	Arab Women's Literature.	3
ISLA 325	Introduction to Shi'i Islam.	3			
ISLA 330	Islamic Mysticism: Sufism.	3			
ISLA 355	Modern History of the Middle East.	3			
ISLA 360	Islam and Politics in Africa	3			
ISLA 365	Middle East Since the 1970's.	3			
ISLA 370	The Qur'an: History and Interpretation.	3			
ISLA 375	Sufi Women	3			
ISLA 380	Islamic Philosophy and Theology.	3			

Non-ISLA Courses

0-12 credits from:

Course	Title	Credits
ANTH 209	Anthropology of Religion.	3
ANTH 318	Globalization and Religion.	3
ANTH 327	Anthropology of South Asia.	3
HIST 209	Introduction to South Asian History.	3

HIST 240	Modern History of Islamic Movements.	3	Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."
HIST 305	Themes in Middle East History	3	
HIST 340	History of Modern Egypt.	3	
HIST 341	Themes in South Asian History.	3	
HIST 435	Topics in South Asian History.	3	
HIST 446	Topics in Middle East History.	3	
JWST 220D1	Introductory Hebrew.	3	
JWST 220D2	Introductory Hebrew.	3	
JWST 245	Jewish Life in the Islamic World.	3	
JWST 261	History of Jewish Philosophy and Thought.	3	
JWST 312	Modern Jewish History.	3	
JWST 320D1	Intermediate Hebrew.	3	
JWST 320D2	Intermediate Hebrew.	3	
JWST 323	The Israeli Novel.	3	
JWST 334	Jews and Muslims: A Modern History.	3	
JWST 338	Jewish Philosophy and Thought 2.	3	
JWST 348	Modern Jewish Studies.	3	
JWST 340D1	Advanced Hebrew.	3	
JWST 340D2	Advanced Hebrew.	3	
JWST 366	History of Zionism.	3	
JWST 367	Hebrew through Israeli Cinema.	3	
JWST 370	Israeli Popular Culture.	3	
PHIL 356	Early Medieval Philosophy.	3	
POLI 340	Comparative Politics of the Middle East.	3	
POLI 341	Foreign Policy: The Middle East.	3	
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	
RELG 204	Judaism, Christianity and Islam.	3	
RELG 307	Bible, Quran and Interpretations.	3	
RELG 309	World Religions and Cultures They Create..	3	
RELG 440	Global Islam.	3	

World Islamic and Middle East Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

- 3 Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).
- 3 Joint Honours students must maintain a program GPA of 3.30 in their World Islamic & Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
ISLA 495	World Islamic and Middle East Studies Research Seminar.	3

Complementary Courses (33 credits)

33 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu (lists below). One level is 6 credits. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits may count toward the 3-6 credits at any level category of the complementary courses' requirement.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

18-21 credits (18 if the 3 extra Introductory Arabic credits are used), distributed as follows:

3 credits of 100-/200-level non-language ISLA courses;

9 credits of 300-level non-language ISLA courses;

3 credits of 400-/500-level non-language ISLA courses;

3-6 credits at any level, including more language courses, but no more than 6 credits in non-language courses overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

Languages (Two levels)

12 credits from:

Arabic

Expand allContract all

Course	Title	Credits	ISLA 200-Level	
ISLA 221D1	Introductory Arabic.	4.5	3 credits from:	
ISLA 221D2	Introductory Arabic.	4.5	Expand allContract all	
ISLA 322	Lower Intermediate Arabic.	6	ISLA 200	Credits
ISLA 322D1	Lower Intermediate Arabic.	3	Islamic Civilization.	3
ISLA 322D2	Lower Intermediate Arabic.	3	ISLA 210	3
ISLA 423D1	Higher Intermediate Arabic.	3	Muslim Societies.	
ISLA 423D2	Higher Intermediate Arabic.	3		
ISLA 524	Advanced Arabic 1.	3		
ISLA 525	Advanced Arabic 2.	3		
ISLA 526	Colloquial Arabic.	3		
Persian				
Expand allContract all				
Course	Title	Credits		
ISLA 241D1	Introductory Persian.	3	ISLA 300	Credits
ISLA 241D2	Introductory Persian.	3	Special Topics 7.	3
ISLA 342D1	Lower Intermediate Persian.	3	ISLA 305	3
ISLA 342D2	Lower Intermediate Persian.	3	Topics in Islamic History.	
ISLA 443D1	Upper Intermediate Persian.	3	ISLA 310	
ISLA 443D2	Upper Intermediate Persian.	3	Women in Islam.	
ISLA 545	Advanced Persian 1.	3	ISLA 311	
ISLA 546	Advanced Persian 2.	3	History of the City-Islamic World.	
Turkish				
Expand allContract all				
Course	Title	Credits		
ISLA 232D1	Introductory Turkish.	3	ISLA 315	Credits
ISLA 232D2	Introductory Turkish.	3	Ottoman State and Society to 1839.	3
ISLA 333D1	Lower Intermediate Turkish.	3	ISLA 320	3
ISLA 333D2	Lower Intermediate Turkish.	3	Art of Islam.	
ISLA 434D1	Higher Intermediate Turkish.	3	ISLA 325	
ISLA 434D2	Higher Intermediate Turkish.	3	Introduction to Shi'i Islam.	
ISLA 535D1	Advanced Turkish.	3	ISLA 330	
ISLA 535D2	Advanced Turkish.	3	Islamic Mysticism: Sufism.	
ISLA 560	Ottoman Turkish	3	ISLA 355	
			Modern History of the Middle East.	
			ISLA 360	
			Islam and Politics in Africa	
			ISLA 370	
			The Qur'an: History and Interpretation.	
			ISLA 375	
			Sufi Women	
			ISLA 380	
			Islamic Philosophy and Theology.	
			ISLA 383	
			Central Questions in Islamic Law.	
			ISLA 385	
			Poetics and Politics in Arabic Literature.	
			ISLA 388	
			Persian Literature.	
			ISLA 390	
			Islamic Reform and Radicalism: Middle East	
			ISLA 392	
			Arabic Literature as World Literature.	
			ISLA 395	
			Melancholic Migrants	
			ISLA 499	
			World Islamic and Middle East Studies Internship.	3
			¹	
			As per course restriction, ISLA 499 World Islamic and Middle East	
			Studies Internship. does not fulfil ISLA 400-/500-level requirements.	
Urdu				
Expand allContract all				
Course	Title	Credits		
ISLA 251D1	Introductory Urdu-Hindi.	3		
ISLA 251D2	Introductory Urdu-Hindi.	3		
ISLA 352D1	Intermediate Urdu-Hindi.	3		
ISLA 352D2	Intermediate Urdu-Hindi.	3		
ISLA 553	Advanced Urdu-Hindi 1.	3		
ISLA 554	Advanced Urdu-Hindi 2.	3		
ISLA 555	Urdu Poetry.	3		
ISLA 400-/500-Level				
6 credits from:				
Expand allContract all				
Course	Title	Credits		
ISLA 410	History: Middle-East 1798-1918.	3		
ISLA 411	History: Middle-East 1918-1945.	3		
ISLA 415	Modern Iran: Anthropological Approach.	3		
ISLA 420	Indo-Islamic Civilization: Medieval.	3		
ISLA 421	Islamic Culture - Indian Subcontinent.	3		
ISLA 430	Islamdom: Baghdad to Cordoba.	3		
ISLA 488	Tales of Wonder-Islamic World.	3		

ISLA 489	Special Topics 6.	3	POLI 340	Comparative Politics of the Middle East.	3
ISLA 502	Art in the Age of Empires.	3	POLI 341	Foreign Policy: The Middle East.	3
ISLA 505	Islam: Origin and Early Development.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
ISLA 506	Revolutions: Arab Middle East and North Africa.	3	RELG 204	Judaism, Christianity and Islam.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3	RELG 307	Bible, Quran and Interpretations.	3
ISLA 512	Art of the Ottoman Empire.	3	RELG 309	World Religions and Cultures They Create..	3
ISLA 515	The Medieval School in Islam.	3	RELG 440	Global Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3			
ISLA 530	Advanced Sufism	3			
ISLA 555	Urdu Poetry.	3			
ISLA 580	Ottoman Institutions.	3			
ISLA 585	Arab Women's Literature.	3			

Non-ISLA Courses

0-6 credits from:

Expand allContract all

Course	Title	Credits	In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.
ANTH 209	Anthropology of Religion.	3	This program may be expanded to the Major Concentration Jewish Studies.
ANTH 318	Globalization and Religion.	3	
ANTH 327	Anthropology of South Asia.	3	
HIST 209	Introduction to South Asian History.	3	
HIST 240	Modern History of Islamic Movements.	3	
HIST 305	Themes in Middle East History	3	18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.
HIST 340	History of Modern Egypt.	3	
HIST 341	Themes in South Asian History.	3	
HIST 435	Topics in South Asian History.	3	
HIST 446	Topics in Middle East History.	3	Consultation with an adviser is strongly recommended.
HIST 591D1	Modern Middle East History.	3	
HIST 591D2	Modern Middle East History.	3	
JWST 220D1	Introductory Hebrew.	3	
JWST 220D2	Introductory Hebrew.	3	
JWST 245	Jewish Life in the Islamic World.	3	
JWST 261	History of Jewish Philosophy and Thought.	3	
JWST 312	Modern Jewish History.	3	
JWST 320D1	Intermediate Hebrew.	3	
JWST 320D2	Intermediate Hebrew.	3	
JWST 323	The Israeli Novel.	3	
JWST 334	Jews and Muslims: A Modern History.	3	
JWST 338	Jewish Philosophy and Thought 2.	3	
JWST 340D1	Advanced Hebrew.	3	
JWST 340D2	Advanced Hebrew.	3	
JWST 348	Modern Jewish Studies.	3	
JWST 366	History of Zionism.	3	
JWST 367	Hebrew through Israeli Cinema.	3	
JWST 370	Israeli Popular Culture.	3	
PHIL 356	Early Medieval Philosophy.	3	

Jewish Studies Minor Concentration (B.A.) (18 credits)

Offered by: Jewish Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
RELG 307	Bible, Quran and Interpretations.	3

East European Studies

Expand allContract all

Course	Title	Credits
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3

JWST 206	Introduction to Yiddish Literature.	3	JWST 337	Jewish Philosophy and Thought 1.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 338	Jewish Philosophy and Thought 2.	3
JWST 240	The Holocaust.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 366	History of Zionism.	3
JWST 366	History of Zionism.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 383	Holocaust Literature.	3			
JWST 485	Tutorial in Yiddish Literature.	3			
JWST 486	Tutorial in Yiddish Literature.	3			
JWST 585	Tutorial: Eastern European Studies 1.	3			
JWST 586	Tutorial: Eastern European Studies 2.	3			

Jewish History

Expand allContract all

Course	Title	Credits	Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 199	FYS: Images - Jewish Identities.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 220D1	Introductory Hebrew.	3
HIST 307	Jews in Poland.	3	JWST 220D2	Introductory Hebrew.	3
HIST 427	The Hasidic Movement.	3	JWST 225	Literature and Society.	3
HIST 572D1	Seminar in Jewish History.	3	JWST 320D1	Intermediate Hebrew.	3
HIST 572D2	Seminar in Jewish History.	3	JWST 320D2	Intermediate Hebrew.	3
JWST 211	Jewish Studies 1: Biblical Period.	3	JWST 323	The Israeli Novel.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	JWST 325	Israeli Literature in Translation.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 340D1	Advanced Hebrew.	3
JWST 240	The Holocaust.	3	JWST 340D2	Advanced Hebrew.	3
JWST 306	The American Jewish Community.	3	JWST 367	Hebrew through Israeli Cinema.	3
JWST 314	Denominations in North American Judaism.	3	JWST 370	Israeli Popular Culture.	3
JWST 315	Modern Liberal Jewish Thought.	3	JWST 383	Holocaust Literature.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 403	Contemporary Hebrew Literature.	3
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			

Jewish Thought

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDER 318	Teaching the Jewish Liturgy.	3	JWST 206	Introduction to Yiddish Literature.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 281	Introductory Yiddish 1.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 282	Introductory Yiddish 2.	3
HIST 427	The Hasidic Movement.	3	JWST 351	Studies in Modern Jewish Literature.	3
JWST 201	Jewish Law.	3	JWST 361	The Shtetl: 1500-1897.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	JWST 381	God and Devil in Modern Yiddish Literature.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 383	Holocaust Literature.	3
JWST 261	History of Jewish Philosophy and Thought.	3	JWST 387	Modern Jewish Authors.	3
JWST 314	Denominations in North American Judaism.	3	JWST 480	Advanced Yiddish 1.	3
JWST 315	Modern Liberal Jewish Thought.	3	JWST 481	Advanced Yiddish 2.	3
			JWST 485	Tutorial in Yiddish Literature.	3
			JWST 486	Tutorial in Yiddish Literature.	3

Modern Jewish Studies

Expand allContract all

Course	Title	Credits
EDER 319	Teaching the Holocaust.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3

			Course	Title	Credits
HIST 572D1	Seminar in Jewish History.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 572D2	Seminar in Jewish History.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	HIST 307	Jews in Poland.	3
JWST 240	The Holocaust.	3	HIST 427	The Hasidic Movement.	3
JWST 309	Jews in Film.	3	HIST 572D1	Seminar in Jewish History.	3
JWST 346	Modern Jewish Studies.	3	HIST 572D2	Seminar in Jewish History.	3
JWST 348	Modern Jewish Studies.	3			
JWST 349	Modern Jewish Studies.	3			
JWST 351	Studies in Modern Jewish Literature.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 361	The Shtetl: 1500-1897.	3			
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			
JWST 383	Holocaust Literature.	3			
JWST 386	American Jewish Literature.	3			
JWST 387	Modern Jewish Authors.	3			
JWST 558	Topics: Modern Jewish Thought.	3			
JWST 585	Tutorial: Eastern European Studies 1.	3			
JWST 586	Tutorial: Eastern European Studies 2.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			

Rabbinic Studies

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
JWST 201	Jewish Law.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 316	Social and Ethical Issues Jewish Law 1.	3
JWST 345	Introduction to Rabbinic Literature.	3
JWST 358	Topics in Jewish Philosophy 1.	3
JWST 359	Topics in Jewish Philosophy 2.	3
JWST 474	Maimonides' Mishneh Torah.	3
JWST 538	Early Rabbinic Parshanut 1.	3

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

Expand allContract all

Jewish Studies Major Concentration (B.A.) (36 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies concentrations are placed into the category "Complementary Courses".

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

36 credits in Jewish Studies of which 24 are normally taken at the 300 level or above, selected as described below. Consultation with an adviser is strongly recommended.

Jewish History

6 credits (minimum) in the history of Jewish civilization to be chosen from:

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

Jewish Language

6 credits reflecting an advanced level of competence in either Hebrew or Yiddish chosen from the following:

Expand allContract all

Course	Title	Credits
JWST 327	A Book of the Bible.	3
JWST 330	Topics in the Hebrew Bible.	3

			Course	Title	Credits
JWST 340D1	Advanced Hebrew.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 340D2	Advanced Hebrew.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 367	Hebrew through Israeli Cinema.	3	HIST 307	Jews in Poland.	3
JWST 370	Israeli Popular Culture.	3	HIST 427	The Hasidic Movement.	3
			HIST 572D1	Seminar in Jewish History.	3
			HIST 572D2	Seminar in Jewish History.	3
			JWST 211	Jewish Studies 1: Biblical Period.	3
			JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
			JWST 217	Jewish Studies 3: 1000 - 2000.	3
			JWST 240	The Holocaust.	3
			JWST 306	The American Jewish Community.	3
			JWST 314	Denominations in North American Judaism.	3
			JWST 315	Modern Liberal Jewish Thought.	3
			JWST 361	The Shtetl: 1500-1897.	3
			JWST 365	Modern Jewish Ideologies.	3
			JWST 366	History of Zionism.	3

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
RELG 307	Bible, Quran and Interpretations.	3

East European Studies

Expand allContract all

Course	Title	Credits
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
JWST 206	Introduction to Yiddish Literature.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 240	The Holocaust.	3
JWST 351	Studies in Modern Jewish Literature.	3
JWST 361	The Shtetl: 1500-1897.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3
JWST 383	Holocaust Literature.	3
JWST 485	Tutorial in Yiddish Literature.	3
JWST 486	Tutorial in Yiddish Literature.	3
JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 586	Tutorial: Eastern European Studies 2.	3

Jewish History

Expand allContract all

Course	Title	Credits
JWST 199	FYS: Images - Jewish Identities.	3
JWST 220D1	Introductory Hebrew.	3
JWST 220D2	Introductory Hebrew.	3
JWST 225	Literature and Society.	3
JWST 320D1	Intermediate Hebrew.	3

JWST 320D2	Intermediate Hebrew.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 323	The Israeli Novel.	3	JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 325	Israeli Literature in Translation.	3	JWST 586	Tutorial: Eastern European Studies 2.	3
JWST 340D1	Advanced Hebrew.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
JWST 340D2	Advanced Hebrew.	3			
JWST 367	Hebrew through Israeli Cinema.	3			
JWST 370	Israeli Popular Culture.	3			
JWST 383	Holocaust Literature.	3			
JWST 403	Contemporary Hebrew Literature.	3			

Language and Literature - Yiddish

Expand allContract all

Course	Title	Credits			Credits
JWST 206	Introduction to Yiddish Literature.	3	JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 281	Introductory Yiddish 1.	3	JWST 316	Social and Ethical Issues Jewish Law 1.	3
JWST 282	Introductory Yiddish 2.	3	JWST 345	Introduction to Rabbinic Literature.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 383	Holocaust Literature.	3	JWST 538	Early Rabbinic Parshanut 1.	3
JWST 387	Modern Jewish Authors.	3			
JWST 480	Advanced Yiddish 1.	3			
JWST 481	Advanced Yiddish 2.	3			
JWST 485	Tutorial in Yiddish Literature.	3			
JWST 486	Tutorial in Yiddish Literature.	3			

Modern Jewish Studies

Expand allContract all

Course	Title	Credits			Credits
EDER 319	Teaching the Holocaust.	3	Expand allContract all		
HIST 219	Jewish History: 1000 - 2000.	3			
HIST 427	The Hasidic Movement.	3			
HIST 572D1	Seminar in Jewish History.	3			
HIST 572D2	Seminar in Jewish History.	3			
JWST 217	Jewish Studies 3: 1000 - 2000.	3			
JWST 240	The Holocaust.	3			
JWST 309	Jews in Film.	3			
JWST 346	Modern Jewish Studies.	3			
JWST 348	Modern Jewish Studies.	3			
JWST 349	Modern Jewish Studies.	3			
JWST 351	Studies in Modern Jewish Literature.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 361	The Shtetl: 1500-1897.	3			
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			
JWST 383	Holocaust Literature.	3			
JWST 386	American Jewish Literature.	3			
JWST 387	Modern Jewish Authors.	3			

Rabbinic Studies

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
JWST 201	Jewish Law.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3

Course	Title	Credits
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 316	Social and Ethical Issues Jewish Law 1.	3
JWST 345	Introduction to Rabbinic Literature.	3
JWST 358	Topics in Jewish Philosophy 1.	3
JWST 359	Topics in Jewish Philosophy 2.	3
JWST 474	Maimonides' Mishneh Torah.	3
JWST 538	Early Rabbinic Parshanut 1.	3

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
HIST 572D1	Seminar in Jewish History.	3
HIST 572D2	Seminar in Jewish History.	3

Jewish Studies Honours (B.A.) (60 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Requirements

Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 491	Honours Thesis 1.	3
JWST 492	Honours Thesis 2.	3

Complementary Courses (51 credits)

51 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3

One of:

Expand allContract all

Course	Title	Credits
HIST 219	Jewish History: 1000 - 2000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

Jewish Language

0-18 credits of a Jewish language. Each Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Hebrew language courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish language courses are found under the heading "Language and Literature - Yiddish."

Areas of Jewish Studies

27-45 credits of courses chosen to reflect progress to the advanced level in two of the areas of study: Biblical Studies, Rabbinic Studies, Literature (Hebrew, Yiddish), Jewish Thought, Jewish History, Modern Jewish Studies, and East European Studies.

Hebrew literature courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish literature courses are found under the heading "Language and Literature - Yiddish".

Students should select their courses in consultation with a program adviser.

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
RELG 307	Bible, Quran and Interpretations.	3

East European Studies

Expand allContract all

Course	Title	Credits
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
JWST 206	Introduction to Yiddish Literature.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 240	The Holocaust.	3
JWST 351	Studies in Modern Jewish Literature.	3
JWST 361	The Shtetl: 1500-1897.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3
JWST 383	Holocaust Literature.	3
JWST 485	Tutorial in Yiddish Literature.	3
JWST 486	Tutorial in Yiddish Literature.	3
JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 586	Tutorial: Eastern European Studies 2.	3

Jewish History

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
HIST 572D1	Seminar in Jewish History.	3
HIST 572D2	Seminar in Jewish History.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 240	The Holocaust.	3
JWST 306	The American Jewish Community.	3
JWST 314	Denominations in North American Judaism.	3
JWST 315	Modern Liberal Jewish Thought.	3

JWST 361	The Shtetl: 1500-1897.	3	JWST 282	Introductory Yiddish 2.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 351	Studies in Modern Jewish Literature.	3
JWST 366	History of Zionism.	3	JWST 361	The Shtetl: 1500-1897.	3

Jewish Thought

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDER 318	Teaching the Jewish Liturgy.	3	JWST 387	Modern Jewish Authors.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 480	Advanced Yiddish 1.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 481	Advanced Yiddish 2.	3
HIST 427	The Hasidic Movement.	3	JWST 485	Tutorial in Yiddish Literature.	3
JWST 201	Jewish Law.	3	JWST 486	Tutorial in Yiddish Literature.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3			
JWST 217	Jewish Studies 3: 1000 - 2000.	3			
JWST 261	History of Jewish Philosophy and Thought.	3			
JWST 314	Denominations in North American Judaism.	3			
JWST 315	Modern Liberal Jewish Thought.	3			
JWST 337	Jewish Philosophy and Thought 1.	3			
JWST 338	Jewish Philosophy and Thought 2.	3			
JWST 358	Topics in Jewish Philosophy 1.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			
JWST 474	Maimonides' Mishneh Torah.	3			
JWST 558	Topics: Modern Jewish Thought.	3			

Language and Literature - Hebrew

Expand allContract all

Course	Title	Credits	Course	Title	Credits
JWST 199	FYS: Images - Jewish Identities.	3	JWST 361	The Shtetl: 1500-1897.	3
JWST 220D1	Introductory Hebrew.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 220D2	Introductory Hebrew.	3	JWST 366	History of Zionism.	3
JWST 225	Literature and Society.	3	JWST 383	Holocaust Literature.	3
JWST 320D1	Intermediate Hebrew.	3	JWST 386	American Jewish Literature.	3
JWST 320D2	Intermediate Hebrew.	3	JWST 387	Modern Jewish Authors.	3
JWST 323	The Israeli Novel.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 325	Israeli Literature in Translation.	3	JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 340D1	Advanced Hebrew.	3	JWST 586	Tutorial: Eastern European Studies 2.	3
JWST 340D2	Advanced Hebrew.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
JWST 367	Hebrew through Israeli Cinema.	3			
JWST 370	Israeli Popular Culture.	3			
JWST 383	Holocaust Literature.	3			
JWST 403	Contemporary Hebrew Literature.	3			

Language and Literature - Yiddish

Expand allContract all

Course	Title	Credits	Course	Title	Credits
JWST 206	Introduction to Yiddish Literature.	3	JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 281	Introductory Yiddish 1.	3	JWST 316	Social and Ethical Issues Jewish Law 1.	3
			JWST 345	Introduction to Rabbinic Literature.	3

			Course	Title	Credits
JWST 358	Topics in Jewish Philosophy 1.	3	JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 359	Topics in Jewish Philosophy 2.	3	JWST 491	Honours Thesis 1.	3
JWST 474	Maimonides' Mishneh Torah.	3	JWST 492	Honours Thesis 2.	3
JWST 538	Early Rabbinic Parshanut 1.	3			

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
HIST 572D1	Seminar in Jewish History.	3
HIST 572D2	Seminar in Jewish History.	3

Jewish Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Requirements

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Complementary Courses (27 credits)

27 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3

One of:

Expand allContract all

Course	Title	Credits
HIST 219	Jewish History: 1000 - 2000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

Jewish Language

0-6 credits of a Jewish language. Each Joint Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Expand allContract all

Course	Title	Credits
JWST 340D1	Advanced Hebrew.	3
JWST 340D2	Advanced Hebrew.	3
JWST 480	Advanced Yiddish 1.	3
JWST 481	Advanced Yiddish 2.	3

Areas of Jewish Studies

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3

JWST 538	Early Rabbinic Parshanut 1.	3	JWST 201	Jewish Law.	3
RELG 307	Bible, Quran and Interpretations.	3	JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
East European Studies					
Expand allContract all					
Course	Title	Credits	JWST 314	Denominations in North American Judaism.	3
HIST 307	Jews in Poland.	3	JWST 315	Modern Liberal Jewish Thought.	3
HIST 427	The Hasidic Movement.	3	JWST 337	Jewish Philosophy and Thought 1.	3
JWST 206	Introduction to Yiddish Literature.	3	JWST 338	Jewish Philosophy and Thought 2.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 240	The Holocaust.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 366	History of Zionism.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 366	History of Zionism.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3	Language and Literature - Hebrew		
JWST 383	Holocaust Literature.	3	Expand allContract all		
Course	Title	Credits	Course	Title	Credits
JWST 485	Tutorial in Yiddish Literature.	3	JWST 199	FYS: Images - Jewish Identities.	3
JWST 486	Tutorial in Yiddish Literature.	3	JWST 220D1	Introductory Hebrew.	3
JWST 585	Tutorial: Eastern European Studies 1.	3	JWST 220D2	Introductory Hebrew.	3
JWST 586	Tutorial: Eastern European Studies 2.	3	JWST 225	Literature and Society.	3
Jewish History					
Expand allContract all					
Course	Title	Credits	JWST 320D1	Intermediate Hebrew.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 320D2	Intermediate Hebrew.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 323	The Israeli Novel.	3
HIST 307	Jews in Poland.	3	JWST 325	Israeli Literature in Translation.	3
HIST 427	The Hasidic Movement.	3	JWST 340D1	Advanced Hebrew.	3
HIST 572D1	Seminar in Jewish History.	3	JWST 340D2	Advanced Hebrew.	3
HIST 572D2	Seminar in Jewish History.	3	JWST 367	Hebrew through Israeli Cinema.	3
JWST 211	Jewish Studies 1: Biblical Period.	3	JWST 370	Israeli Popular Culture.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	JWST 383	Holocaust Literature.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 403	Contemporary Hebrew Literature.	3
JWST 240	The Holocaust.	3	Language and Literature - Yiddish		
Expand allContract all					
Course	Title	Credits	Course	Title	Credits
JWST 306	The American Jewish Community.	3	JWST 206	Introduction to Yiddish Literature.	3
JWST 314	Denominations in North American Judaism.	3	JWST 281	Introductory Yiddish 1.	3
JWST 315	Modern Liberal Jewish Thought.	3	JWST 282	Introductory Yiddish 2.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 351	Studies in Modern Jewish Literature.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 361	The Shtetl: 1500-1897.	3
JWST 366	History of Zionism.	3	JWST 381	God and Devil in Modern Yiddish Literature.	3
Jewish Thought					
Expand allContract all					
Course	Title	Credits	JWST 383	Holocaust Literature.	3
EDER 318	Teaching the Jewish Liturgy.	3	JWST 387	Modern Jewish Authors.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 480	Advanced Yiddish 1.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 481	Advanced Yiddish 2.	3
HIST 427	The Hasidic Movement.	3			

JWST 485	Tutorial in Yiddish Literature.	3	areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.
JWST 486	Tutorial in Yiddish Literature.	3	

Modern Jewish Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDER 319	Teaching the Holocaust.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3	HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3	HIST 307	Jews in Poland.	3
HIST 572D1	Seminar in Jewish History.	3	HIST 427	The Hasidic Movement.	3
HIST 572D2	Seminar in Jewish History.	3	HIST 572D1	Seminar in Jewish History.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	HIST 572D2	Seminar in Jewish History.	3
JWST 240	The Holocaust.	3			
JWST 309	Jews in Film.	3			
JWST 346	Modern Jewish Studies.	3			
JWST 348	Modern Jewish Studies.	3			
JWST 349	Modern Jewish Studies.	3			
JWST 351	Studies in Modern Jewish Literature.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 361	The Shtetl: 1500-1897.	3			
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			
JWST 383	Holocaust Literature.	3			
JWST 386	American Jewish Literature.	3			
JWST 387	Modern Jewish Authors.	3			
JWST 558	Topics: Modern Jewish Thought.	3			
JWST 585	Tutorial: Eastern European Studies 1.	3			
JWST 586	Tutorial: Eastern European Studies 2.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			

Rabbinic Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	LLCU 210	Introduction to European Literature and Culture.	3
HIST 219	Jewish History: 1000 - 2000.	3			
JWST 201	Jewish Law.	3			
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3			
JWST 217	Jewish Studies 3: 1000 - 2000.	3			
JWST 316	Social and Ethical Issues Jewish Law 1.	3			
JWST 345	Introduction to Rabbinic Literature.	3			
JWST 358	Topics in Jewish Philosophy 1.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 474	Maimonides' Mishneh Torah.	3			
JWST 538	Early Rabbinic Parshanut 1.	3			

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain

European Literature and Culture Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in European Literature and Culture provides students with a broad foundation for understanding the development and interconnectedness of European culture, and its relevance for the comprehension of today's world through the study of literature and the arts from the Middle Ages to modern times. Knowledge of a language other than English is not required to complete the program.

Required Course (3 credits)

Course	Title	Credits
LLCU 210	Introduction to European Literature and Culture.	3

Complementary Courses (15 credits)

9-15 credits selected from the list below. At least 6 credits should be at the 300-level or above.

Students with an advanced knowledge of German, Italian, Russian, or Spanish can count GERM, HISP, ITAL, and RUSS literature courses taught in those languages toward the Minor Concentration. No more than 6 credits in any given area (LLCU, GERM, HISP, ITAL, and RUSS) shall count toward the Minor Concentration (not including LLCU 210 Introduction to European Literature and Culture.).

Expand allContract all

Course	Title	Credits
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3

GERM 364	Gender and Society in German Literature and Culture.	3	ENGL 200	Survey of English Literature 1.	3
GERM 365	Modern Short Fiction.	3	ENGL 201	Survey of English Literature 2.	3
GERM 367	Topics in German Thought.	3	ENGL 215	Introduction to Shakespeare.	3
GERM 368	Fin-de-Siècle Vienna.	3	ENGL 310	Restoration and 18th Century Drama.	3
GERM 369	The German Novel.	3	ENGL 314	20th Century Drama.	3
GERM 370	Special Topics in German Film.	3	ENGL 329	English Novel: 19th Century 1.	3
HISP 225	Hispanic Civilization 1.	3	ENGL 337	Theme or Genre in Medieval Literature.	3
HISP 226	Hispanic Civilization 2.	3	ENGL 347	Great Writings of Europe 1.	3
HISP 301	Hispanic Literature and Culture in English 1.	3	ENGL 349	English Literature and Folklore 1.	3
ITAL 355	Dante and the Middle Ages.	3	ENGL 356	Middle English.	3
ITAL 365	The Italian Renaissance.	3	ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
ITAL 374	Classics of Italian Cinema.	3	ENGL 456	Middle English.	3
ITAL 464	Machiavelli.	3	FREN 355	Littérature du 20e siècle 1.	3
ITAL 477	Italian Cinema and Video.	3	FREN 360	La littérature du 19e siècle 1.	3
LLCU 200	Topics in Film.	3	FREN 362	La littérature du 17e siècle 1.	3
LLCU 201	Literature and Culture Topics.	3	FREN 364	La littérature du 18e siècle 1.	3
LLCU 220	Introduction to Literary Analysis.	3	FREN 366	Littérature de la Renaissance 1.	3
LLCU 230	Environmental Imaginations.	3	FREN 453	Littérature du 20e siècle 2.	3
LLCU 279	Introduction to Film History.	3	FREN 455	La littérature médiévale 1.	3
LLCU 300	Cinema and the Visual.	3	FREN 456	La littérature médiévale 2.	3
LLCU 301	Topics in Culture and Thought.	3	FREN 457	La littérature de la Renaissance 2.	3
RUSS 217	Russia's Eternal Questions.	3	FREN 458	La littérature du 17e siècle 2.	3
RUSS 218	Russian Literature and Revolution.	3	FREN 459	La littérature du 18e siècle 2.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3	FREN 482	La littérature du 19e siècle 2.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3	FREN 485	Littérature française contemporaine.	3
RUSS 330	Chekhov without Borders.	3			
RUSS 337	Vladimir Nabokov.	3			
RUSS 340	Russian Short Story.	3			
RUSS 357	Leo Tolstoy.	3			
RUSS 358	Fyodor Dostoevsky.	3			
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3			
RUSS 427	Russian Fin de Siècle.	3			
RUSS 428	Russian Avantgarde.	3			
RUSS 430	High Stalinist Culture 1.	3			
RUSS 440	Russia and Its Others.	3			

0-6 credits in literature courses offered by Classical Studies (CLAS), English (ENGL), and French (FREN) selected from the following list:

Expand allContract all

Course	Title	Credits	
CLAS 203	Greek Mythology.	3	Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.
CLAS 301	Ancient Greek Literature and Society.	3	
CLAS 302	Roman Literature and Society.	3	
CLAS 306	Classics in Modern Media.	3	Note: Beginners' and Intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.
CLAS 336	Modern Greek Literature.	3	

German Language Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Complementary Courses (18 credits)

18 credits of language courses or any course above the 325 level given in the German language, selected from the following:

Language Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D2	German Language, Beginners.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

List of Complementary Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3

GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3

German Studies Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in German Studies provides an introduction to and critical understanding of a variety of aspects of German culture from the eighteenth century to the present day. It is designed to complement other forms of disciplinary and cultural inquiry, such as international studies, the digital humanities, and studies in other languages or geographic areas. Courses include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture.

This program may be expanded to a Major Concentration.

Complementary Courses (18 credits)

18 credits of courses in German literature, culture, and film taught in English or German selected from the following list.

A maximum of 6 credits of LLCU courses can be taken, with prior departmental approval.

Beginners' and Intermediate Language courses may not be applied towards this Minor Concentration.

GERM 325 German Language - Intensive Advanced. may be applied towards this Minor Concentration.

[Expand all](#)[Contract all](#)

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 325	German Language - Intensive Advanced.	6
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3

GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 373	Weimar German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3

Complementary Courses (36 credits)

6 credits must be in pre-20th century literature and culture.

A minimum of 9 credits of literature, culture, and film courses taught in German.

A maximum of 6 credits of LLCU courses, with prior departmental approval.

Language Courses

Expand allContract all

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D2	German Language, Beginners.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

Literature and Culture Courses

Expand allContract all

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3

German Studies Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the major concentration and normally courses towards the major concentration will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Course	Title	Credits
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 373	Weimar German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3
GERM 580	Topics in German Literature and Culture.	3

German Studies Honours (B.A.) (60 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the Honours program and all courses towards Honours will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

Admission to the Honours program requires departmental approval. Students may begin this program in their first year. Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Complementary Courses (54 credits)

54 credits of complementary courses taken in German selected with the following specifications:

6 credits must be in pre-20th century literature and culture.

Students can take a maximum of 6 credits of LLCU courses and only with prior approval.

A maximum of 9 credits in GERM courses offered in English and only with prior approval.

3 credits at the 400-level.

Language Courses

Expand allContract all

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D1	German Language, Beginners'.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

List of Complementary Courses

Expand allContract all

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 331	Germany after Reunification. ¹	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture. ¹	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3

GERM 362	20th Century Literature Topics.	3	program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.		
GERM 364	Gender and Society in German Literature and Culture.	3			
GERM 365	Modern Short Fiction.	3			
GERM 366	Lyric Poetry.	3			
GERM 368	Fin-de-Siècle Vienna.	3			
GERM 369	The German Novel.	3			
GERM 371	German Cinema.	3			
GERM 372	Topics in German Cinema.	3			
GERM 375	German Media Studies.	3	Expand allContract all		
GERM 379	German Visual Culture.	3	Course	Title	Credits
GERM 381	Topics in German Thought.	3	GERM 570	Joint Honours Thesis.	3
GERM 385	Critical Theory.	3			
GERM 388	Post-Wall Culture.	3			
GERM 390	Topics in 21st Century German Literature and Culture.	3			
GERM 397	Individual Reading Course 01.	3			
GERM 580	Topics in German Literature and Culture.	3			

¹ NOTE: Students can take either GERM 331 Germany after Reunification or GERM 336 German Language, Media and Culture, but not both.

German Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours – German Studies Component provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the Joint Honours Component and normally courses towards the Joint Honours Component will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all		
Course	Title	Credits

GERM 570 Joint Honours Thesis. 3

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications:

Students can elect to take either the German language stream in which most courses must be taught in German or the translation stream in which courses can be taught in either German or English.

6 credits must be in pre-20th Century literature and culture.

Students of the German language stream can take a maximum of 9 credits of LLCU courses or German Studies courses taught in English, only with prior approval.

3 credits at the 400 level (only applies to German language stream).

Language Courses

Expand allContract all		
Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D2	German Language, Beginners.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

Literature and Culture Courses

Expand allContract all		
Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 331	Germany after Reunification. ¹	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3

GERM 336	German Language, Media and Culture. ¹	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3
GERM 580	Topics in German Literature and Culture.	3

¹ NOTE: Students can take either GERM 331 Germany after Reunification. or GERM 336 German Language, Media and Culture. but not both.

Hispanic Studies Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Hispanic Studies provides students with a solid foundation on Spanish language and culture. It can be expanded to the Major Concentration in Hispanic Studies.

Complementary Courses (18 credits)

0-12 credits in language courses.

Expand allContract all

Course	Title	Credits
HISP 210	Spanish Language: Beginners.	6
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220	Spanish Language: Intermediate.	6

6-18 credits to be chosen from among Hispanic Studies course offerings other than language courses, of which no more than 6 credits may be courses taught in English.

Note: Advanced Placement (AP) credits cannot be counted towards the Minor.

Hispanic Studies Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Department of Languages, Literatures, and Cultures – Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

Expand allContract all

Course	Title	Credits
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3

Introductory Courses

6 - 12 credits in Introductory courses from:

Expand allContract all

Course	Title	Credits
HISP 245	Introduction to Hispanic Literature	3
HISP 246	Contemporary Issues in the Hispanic World	3
HISP 247	Introduction to Hispanic Popular Cultures	3
HISP 248	Introduction to Hispanic Cinema	3

Hispanic Literature and Culture

6-30 credits from the following with a minimum of 6 credits at the 400 level or above:

Expand allContract all

Course	Title	Credits
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 325	Spanish Novel of the 19th Century.	3
HISP 326	Spanish Romanticism.	3
HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 335	Politics and Poetry in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 341	Spanish Cinema.	3
HISP 345	Contemporary Hispanic Cultural Studies.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3
HISP 357	Latin American Digital Literature and Culture.	3
HISP 358	Gender and Textualities.	3
HISP 432	Literature - Discovery and Exploration Spain New World.	3
HISP 437	Colonial / Postcolonial Latin America.	3

HISP 438	Topics: Spanish Literature.	3
HISP 439	Topics: Latin American Literature.	3
HISP 451	Don Quixote.	3
HISP 454	Major Figures: Spanish Literature and Culture.	3
HISP 455	Major Figures: Latin American Literature and Culture.	3
HISP 458	Golden Age Literature: Renaissance.	3
HISP 505	Seminar in Hispanic Studies 01.	3

Note: No more than 12 credits in courses taught in English shall count towards the Major.

Hispanic Studies Honours (B.A.) (60 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours program in Hispanic Studies offers an in-depth study of the language and culture of Spain and Latin America in the areas of literature, film, digital humanities and intellectual history. The program focuses on skills of communication and critical reasoning through the analysis of Spanish and Latin American languages and cultural production.

Prerequisite for admission into Honours Hispanic Studies: a first-year Spanish course with a final grade of B+. Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Students must take an 18-credit Minor concentration in another area.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
HISP 245	Introduction to Hispanic Literature	3
HISP 246	Contemporary Issues in the Hispanic World	3
HISP 247	Introduction to Hispanic Popular Cultures	3
HISP 248	Introduction to Hispanic Cinema	3
HISP 490D1	Honours Thesis.	3
HISP 490D2	Honours Thesis.	3

Complementary Courses (42 credits)

At least 9 credits of undergraduate courses at the 400-level or above

All remaining credits may be selected from courses given in Spanish in the Department at or above the intermediate Spanish language level (HISP 219 Spanish Language Intensive - Intermediate. OR HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate.).

No more than 18 credits in courses taught in English will count towards the Honours program.

Hispanic Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Department of Languages, Literatures, and Cultures - Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
HISP 490D1	Honours Thesis.	3
HISP 490D2	Honours Thesis.	3

Complementary Courses (30 credits)

Introductory Courses

6-12 credits in Introductory courses from:

Expand allContract all

Course	Title	Credits
HISP 245	Introduction to Hispanic Literature	3
HISP 246	Contemporary Issues in the Hispanic World	3
HISP 247	Introduction to Hispanic Popular Cultures	3
HISP 248	Introduction to Hispanic Cinema	3

18-24 credits taken from undergraduate courses in Hispanic Studies at the 300 level or higher, of which 9 credits should be at the 400 level or higher {excluding HISP 490D1 and HISP 490D2}.

No more than 12 credits in courses taught in English shall count towards this program.

Note: No more than 12 credits in courses taught in English shall count towards the major

Italian Studies Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may be expanded to the Major Concentration Italian Studies.

Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

Group A – Basic Language Courses and Group B – Courses taught in Italian (12-18 credits combined)

Group C – Courses taught in English (0-6 credits)

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3

ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3
ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 310	The Invention of Italian Literature.	3
ITAL 329	Italian Cinematic Tradition.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 345	Romanticism in Italy.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 371	The Italian Baroque.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition. or ITAL 255 Advanced Reading and Composition. can count towards the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 230	Understanding Italy.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Italian Studies Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

3 **Degree:** Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 36

Program Description

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

Group A - Basic Language Courses (0-12 credits)

- Students with no knowledge of the Italian language must take 12 credits in language.
- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1 Italian for Advanced Beginners./ITAL 210D2 Italian for Advanced Beginners., ITAL 215D1 Intermediate Italian./ITAL 215D2 Intermediate Italian., or ITAL 216 Intermediate Italian Intensive..
- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

Group B – Courses Taught in Italian (a minimum of 12 credits, of which a maximum of 6 credits may be at the 200 level)

Group C – Courses Taught in English (0-12 credits)

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3
ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3
ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3

ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 310	The Invention of Italian Literature.	3
ITAL 329	Italian Cinematic Tradition.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 345	Romanticism in Italy.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 371	The Italian Baroque.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition or ITAL 255 Advanced Reading and Composition can count toward the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 230	Understanding Italy.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Italian Studies Honours (B.A.) (54 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to the Honours program in Italian requires Departmental approval. Students wishing to register should consult with the Department as early as possible. Qualified students may begin Honours in Italian Studies in the first year, instead of the second, at the discretion of the Department.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

One of the two honours thesis courses below:

Expand allContract all

Course	Title	Credits
ITAL 471D1	Honours Thesis.	3
ITAL 471D2	Honours Thesis.	3
ITAL 472	Honours Thesis (Intensive).	6

Complementary Courses (48 credits)

48 credits, 9 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A - Basic Language Courses.

30-48 credits from Group B - Courses Taught in Italian.

0-9 credits combined from Group C - Courses Taught in English and Group D - Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3
ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3
ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 310	The Invention of Italian Literature.	3

ITAL 329	Italian Cinematic Tradition.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 345	Romanticism in Italy.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 371	The Italian Baroque.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition, or ITAL 255 Advanced Reading and Composition, can count toward the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 230	Understanding Italy.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Group D - Courses Offered in Other Departments

Expand allContract all

Course	Title	Credits
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 325	Visual Culture Renaissance Venice.	3
CLAS 302	Roman Literature and Society.	3
CLAS 404	Classical Tradition.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
HIST 345	History of Italian Renaissance.	3
HIST 380	The Medieval Mediterranean.	3
HIST 398	Topics in Italian History.	3
HIST 401AA	Topics: Medieval Culture & Soc	3
MUHL 387	Opera from Mozart to Puccini.	3

Italian Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to Joint Honours requires departmental approval. Students wishing to register in the program should consult with the Department as early as possible. Students may register for Joint Honours in the first year, instead of the second year, if in the opinion of the departments they are found to be qualified.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ITAL 355	Dante and the Middle Ages.	3
ITAL 470	Joint Honours Thesis.	3

Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3

ITAL 210D2	Italian for Advanced Beginners.	3	HIST 401AA	Topics: Medieval Culture & Soc	3
ITAL 215D1	Intermediate Italian.	3	MUHL 387	Opera from Mozart to Puccini.	3
ITAL 215D2	Intermediate Italian.	3			
ITAL 216	Intermediate Italian Intensive.	6			

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 310	The Invention of Italian Literature.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition. or ITAL 255 Advanced Reading and Composition. can count toward the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 365	The Italian Renaissance.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Group D - Courses Offered in Other Departments

Expand allContract all

Course	Title	Credits
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 325	Visual Culture Renaissance Venice.	3
CLAS 302	Roman Literature and Society.	3
CLAS 404	Classical Tradition.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
HIST 345	History of Italian Renaissance.	3
HIST 380	The Medieval Mediterranean .	3
HIST 398	Topics in Italian History.	3

Latin American and Caribbean Studies Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

Complementary Courses (15 credits)

3-6 credits to be chosen from:

Course	Title	Credits
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3

3-6 credits to be chosen from:

Course	Title	Credits
HIST 210	Introduction to Latin American History .	3
LACS 480	Latin American and Caribbean Studies Reading Course.	3
LACS 499	Internship: Latin America and Caribbean Studies.	3
POLI 319	Politics of Latin America.	3

3-9 credits to be selected from the following course list in consultation with the Program Adviser. If more than one course is chosen, they

must be from at least two different disciplines or departments. At least one course should be at the 300 level or above. No more than 6 credits in Spanish or Portuguese language shall count for the Minor Concentration.

Courses Offered by Other Units

Anthropology

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3
ANTH 319	Inka Archaeology and Ethnohistory.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 332	Mesoamerican Archaeology.	3

Economics

[Expand all](#)[Contract all](#)

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 431	Studies in Drama. ¹	3

¹ when given under a topic related to Latin American & Caribbean Studies

Geography

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 310	Development and Livelihoods.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 328	Literature of Ideas: Latin America.	3

HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3
HISP 357	Latin American Digital Literature and Culture.	3
HISP 358	Gender and Textualities.	3
HISP 432	Literature - Discovery and Exploration Spain New World.	3
HISP 437	Colonial / Postcolonial Latin America.	3
HISP 439	Topics: Latin American Literature.	3
HISP 455	Major Figures: Latin American Literature and Culture.	3
HISP 505	Seminar in Hispanic Studies 01.	3

History

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA	Topics in Latin American History.	3
or HIST 409AB	Topics in Latin American History.	
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Political Science

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Latin American and Caribbean Studies Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand all Contract all

Course	Title	Credits
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3
HIST 210	Introduction to Latin American History .	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3
POLI 319	Politics of Latin America.	3

¹ Note: Successful completion of intermediate-level Spanish (HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate. or HISP 219 Spanish Language Intensive - Intermediate. or equivalent) is a prerequisite for the required courses HISP 243 Survey of Latin American Literature and Culture 1. and HISP 244 Survey of Latin American Literature and Culture 2..

Complementary Courses (21 credits)

21 credits selected from the Complementary Course List in consultation with the Program Advisor with the following requirements:

1. Courses from at least two disciplines or departments must be included.
2. At least 6 of the 21 credits must be at the 300 level or above.
3. No more than 6 credits in Spanish or Portuguese language (HISP 210D1 Spanish Language: Beginners./HISP 210D2 Spanish Language: Beginners., HISP 218 Spanish Language Intensive - Elementary., HISP 219 Spanish Language Intensive - Intermediate., HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate.) shall count for the Major concentration.

Complementary Course List

Anthropology

Expand all Contract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3
ANTH 319	Inka Archaeology and Ethnohistory.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 428	Saints and Mediation in Latin America.	3

Economics

Expand all Contract all

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

Expand all Contract all

Course	Title	Credits
ENGL 431	Studies in Drama. ¹	3

¹ when given under a topic related to Latin American & Caribbean Studies

Geography

Expand all Contract all

Course	Title	Credits
GEOG 310	Development and Livelihoods.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

Expand all Contract all

Course	Title	Credits
HISP 202	Portuguese Language: Beginners.	6
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3
HISP 357	Latin American Digital Literature and Culture.	3
HISP 358	Gender and Textualities.	3
HISP 432	Literature - Discovery and Exploration Spain New World.	3
HISP 437	Colonial / Postcolonial Latin America.	3
HISP 439	Topics: Latin American Literature.	3
HISP 455	Major Figures: Latin American Literature and Culture.	3
HISP 505	Seminar in Hispanic Studies 01.	3

History

Expand all Contract all

Course	Title	Credits
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA or HIST 409AB	Topics in Latin American History.	3
HIST 564D1	Seminar: Latin American History.	3
HIST 564D2	Seminar: Latin American History.	3
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Latin American and Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 480	Latin American and Caribbean Studies Reading Course.	3
LACS 499	Internship: Latin America and Caribbean Studies.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Latin American and Caribbean Studies Honours (B.A.) (60 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours Latin American and Caribbean Studies is designed to meet the needs of students who plan to attend graduate or professional school upon completion of the B.A. This programs provides a comprehensive interdisciplinary understanding of Latin America and the Caribbean, upon which more specialized coursework and research may be based. This program is recommended for students who envision graduate study in a specific discipline, such as History or Political Science.

While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, in addition, students pursuing the Honours Latin American and Caribbean Studies must normally maintain a B+ (3.30) average in all program courses. Students must also meet all additional Faculty of Arts requirements for graduation with Honours.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3
HIST 210	Introduction to Latin American History .	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3
LACS 498	Honours Thesis.	3
POLI 319	Politics of Latin America.	3

¹ Note: Successful completion of intermediate-level Spanish (HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate. or HISP 219 Spanish Language Intensive - Intermediate. or equivalent) is a prerequisite for the required courses HISP 243 Survey of Latin American Literature and Culture 1. and HISP 244 Survey of Latin American Literature and Culture 2..

Complementary Courses (42 credits)

42 credits selected from the Complementary Course List in consultation with the Program Advisor with the following requirements.

1. 12 credits must be taken in Spanish or Portuguese.
2. 30 additional credits on Latin America and the Caribbean (exclusive of language courses).
3. A minimum of 15 of these 30 credits must be taken in one of the following disciplinary clusters, which may also include up to 6 credits of theoretical and/or methodological courses of particular relevance to the student's research interests:
 - Cluster 1 - Literature and Culture;
 - Cluster 2 - Economics, History, and Political Science;
 - Cluster 3 - Anthropology and Geography.

Complementary Course List

Hispanic Studies - Languages

Expand allContract all

Course	Title	Credits
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3

Latin American and Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 499	Internship: Latin America and Caribbean Studies.	3

Cluster 1: Literature and Culture - Hispanic Studies

Expand allContract all

Course	Title	Credits	GEOG 498	Humans in Tropical Environments.	3
HISP 225	Hispanic Civilization 1.	3	GEOG 510	Humid Tropical Environments.	3
HISP 226	Hispanic Civilization 2.	3			
HISP 328	Literature of Ideas: Latin America.	3			
HISP 332	Latin American Literature of 19th Century.	3			
HISP 333	Theatre, Performance and Politics in Latin America.	3			
HISP 335	Politics and Poetry in Latin America.	3			
HISP 340	Latin American Cinema.	3			
HISP 352	Latin American Novel.	3			
HISP 356	Latin American Short Story.	3			
HISP 357	Latin American Digital Literature and Culture.	3			
HISP 358	Gender and Textualities.	3			
HISP 432	Literature - Discovery and Exploration Spain New World.	3			
HISP 437	Colonial / Postcolonial Latin America.	3			
HISP 455	Major Figures: Latin American Literature and Culture.	3			
HISP 505	Seminar in Hispanic Studies 01.	3			

Cluster 2: Economics, History, and Political Science

Expand allContract all

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA	Topics in Latin American History.	3
or HIST 409AB	Topics in Latin American History.	
HIST 564D1	Seminar: Latin American History.	3
HIST 564D2	Seminar: Latin American History.	3
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3
POLI 227	Introduction to Comparative Politics - Global South.	3

Cluster 3: Anthropology and Geography

Expand allContract all

Course	Title	Credits		Credits
ANTH 212	Anthropology of Development.	3	HISP 244	Survey of Latin American Literature and Culture 2.
ANTH 307	Andean Prehistory.	3	HIST 210	Introduction to Latin American History .
ANTH 319	Inka Archaeology and Ethnohistory.	3	LACS 497	Research Seminar: Latin America and the Caribbean.
ANTH 326	Anthropology of Latin America.	3	LACS 498	Honours Thesis.
GEOG 310	Development and Livelihoods.	3	POLI 319	Politics of Latin America.
GEOG 404	Environmental Management 2. ¹	3		
GEOG 408	Geography of Development.	3		

Latin American and Caribbean Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Joint Honours Latin American and Caribbean Studies Component provides students with an interdisciplinary approach to the study of the Latin American and Caribbean region. Students wishing to study at the Honours level in two disciplines can combine Joint Honours programs in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Joint Honours students should consult an adviser in each department to discuss their course selection and their research project. Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Requirements

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3
HIST 210	Introduction to Latin American History .	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3
LACS 498	Honours Thesis.	3
POLI 319	Politics of Latin America.	3

Complementary Courses (18 credits)

No more than 9 courses in one field.

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3
ANTH 319	Inka Archaeology and Ethnohistory.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 428	Saints and Mediation in Latin America.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 431	Studies in Drama. ¹	3

¹ When given under a topic related to Latin American and Caribbean studies.

Geography

Expand allContract all

Course	Title	Credits
GEOG 310	Development and Livelihoods.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

Expand allContract all

Course	Title	Credits
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3

HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3
HISP 357	Latin American Digital Literature and Culture.	3
HISP 358	Gender and Textualities.	3
HISP 432	Literature - Discovery and Exploration Spain New World.	3
HISP 437	Colonial / Postcolonial Latin America.	3
HISP 439	Topics: Latin American Literature.	3
HISP 455	Major Figures: Latin American Literature and Culture.	3
HISP 505	Seminar in Hispanic Studies 01.	3

History

Expand allContract all

Course	Title	Credits
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA	Topics in Latin American History.	3
or HIST 409AB	Topics in Latin American History.	
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Liberal Arts Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 36

Program Description

The Major Concentration in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students are able to choose among three intellectual streams: literature and the arts (including theatre and architecture); history, culture and society; and philosophy and religion. Students in each stream must satisfy distribution requirements in relation to minimum

number of 300/400+ level courses; maximum number of courses in one discipline; geographical areas and historical periods.

All students majoring in Liberal Arts are also required to complete a Minor Concentration in a language program (other than English). Students who are native speakers of a language other than English are strongly encouraged to fulfill this requirement in a third language.

The approved language minors are:

- Minor Concentration in Classics (Language Stream)
- Minor Concentration in East Asian Language and Literature or Supplementary East Asian Language
- Minor Concentration in German Language
- Minor Concentration in Hispanic Languages
- Minor Concentration in Italian Studies
- Minor Concentration in Jewish Studies
- Minor Concentration in French Language and Literature – French Language
- Minor Concentration in World Islamic & Middle East Studies
- Minor Concentration in Russian
- Minor Concentration in Scriptural Languages

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses

Liberal Arts students are required to take two courses designed to help them reflect on the contemporary significance of a Liberal Arts education and on their experience in the Liberal Arts program.

Expand allContract all

Course	Title	Credits
LIBA 202	Introduction to Liberal Arts.	3
LIBA 402	Seminar in Liberal Arts.	3

Complementary Courses (30 credits)

Students must complete 30 credits in one of the three specialized streams set out below.

The distribution requirements for all streams are the following:

1. at least 6 credits from the 200-level introductory courses within one stream;
2. at least 15 credits must be from courses at the 300 level or above; at least 6 credits must be at the 400 level or above (language courses cannot count toward satisfying this requirement);
3. no more than 18 credits can be from a single discipline;
4. geographical area: at least 6 credits in coursework primarily emphasizing Africa and/or Asia, and at least 6 credits in coursework emphasizing Europe and/or the Americas or Australasia, and
5. historical periods: at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6

credits in coursework primarily emphasizing texts or history from 1500-1900 (a given course may satisfy both the geographical area and the historical period requirement).

Stream 1: Literature and the Arts (including Theatre and Architecture)

This stream is designed for students whose primary interests lie in the study of literature and the arts across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:

1. courses taught in the "core" disciplines in this stream, and
2. courses taught in other disciplines which are nevertheless pertinent to this stream.

Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

List A (6 credits)

Expand allContract all

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
CLAS 203	Greek Mythology.	3
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 302	Roman Literature and Society.	3
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3
EAST 215	Introduction to East Asian Art.	3
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 230	Introduction to Theatre Studies.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
GERM 259	Introduction to German Literature 1.	3
HISP 225	Hispanic Civilization 1.	3
ISLA 200	Islamic Civilization.	3

ISLA 210	Muslim Societies.	3	EAST 550	Classical Chinese Poetry Themes and Genres.	3
ITAL 230	Understanding Italy.	3	EAST 569	Advanced Topics: Japanese Literature.	3
ITAL 295	Italian Cultural Studies.	3	HIST 345	History of Italian Renaissance.	3
LLCU 220	Introduction to Literary Analysis.	3	HIST 405	Topics in Intellectual History.	3
RELG 203	Bible and Western Culture.	3	HIST 411	Topics in African History.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3	HIST 426	Topics: British Cultural History.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3	ISLA 385	Poetics and Politics in Arabic Literature.	3
Music: up to 6 credits of Music courses (labelled MUAR) can be selected in consultation with the Program Director.			ISLA 388	Persian Literature.	3
			ISLA 390	Islamic Reform and Radicalism: Middle East	3
			ISLA 392	Arabic Literature as World Literature.	3
			ISLA 488	Tales of Wonder-Islamic World.	3
			ISLA 585	Arab Women's Literature.	3
			LIBA 395	Individual Reading Course.	3
			PHIL 336	Aesthetics.	3
			PHIL 436	Aesthetics 2.	3
			RELG 210	Jesus of Nazareth.	3
			RELG 302	Literature of Ancient Israel 1.	3
			RELG 303	Literature of Ancient Israel 2.	3
			RELG 307	Bible, Quran and Interpretations.	3
			RELG 311	Formation of the New Testament.	3
			RELG 312	The Gospels.	3
			RELG 455	Religion, Performance and Agency in South Asia	3

List B (24 credits)

Students in the Literature and the Arts (including Theatre and Architecture) stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Architecture (ARCH), Art History and Communication Studies (labelled ARTH), Classics (CLAS), English (ENGL), French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), Languages, Literatures, and Cultures (LLCU), and Russian Studies (RUSS); and
- any course (other than a course dedicated to teaching a language) at the 200 level or above in Jewish Studies (JWST) listed in the Course Catalogue under the headings "Biblical Studies," "Languages and Literatures – Hebrew" and "Language and Literature – Yiddish."

Students in this stream may also choose a maximum of 9 credits from the following list:

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
ARCH 354	Architectural History 3.	3
ARCH 355	Architectural History 4.	3
ARCH 531	Architectural Intentions Vitruvius - Renaissance.	3
ARCH 532	Origins of Modern Architecture.	3
ARTH 352	Feminism in Art and Art History.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 362	Japanese Cinema.	3
EAST 453	Topics: Chinese Literature.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3
EAST 464	Image, Text, Performance.	3
EAST 467	Topics: Japanese Cinema.	3

Stream 2: History, Culture, and Society

This stream is designed for students whose primary interests lie in the study of history, culture, and society across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:

- courses taught in the "core" disciplines in this stream, and
- courses taught in other disciplines which are nevertheless pertinent to this stream.

Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

List A (6 credits)

Expand allContract all

Course	Title	Credits
CATH 200	Introduction to Catholicism.	3
COMS 200	History of Communication.	3
COMS 210	Introduction to Communication Studies.	3

COMS 230	Communication and Democracy.	3	CATH 340	Catholicism and Public Policy.	3
EAST 211	Introduction: East Asian Culture: China.	3	CLAS 203	Greek Mythology.	3
EAST 212	Introduction: East Asian Culture: Japan.	3	CLAS 308	Gender in the Ancient World.	3
EAST 213	Introduction: East Asian Culture: Korea.	3	CLAS 404	Classical Tradition.	3
EAST 215	Introduction to East Asian Art.	3	CLAS 406	Greek and Roman Historiography.	3
HIST 200	Introduction to African History.	3	EAST 303	Current Topics: Chinese Studies 1.	3
HIST 201	Modern African History.	3	EAST 304	Current Topics: Chinese Studies 2.	3
HIST 202	Survey: Canada to 1867.	3	EAST 305	Current Topics: Japanese Studies 1.	3
HIST 203	Survey: Canada since 1867.	3	EAST 306	Current Topics: Japanese Studies 2.	3
HIST 205	Ancient Mediterranean History.	3	EAST 313	Current Topics: Korean Studies 1.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	EAST 314	Current Topics: Korean Studies 2.	3
HIST 208	Introduction to East Asian History.	3	EAST 364	Mass Culture and Postwar Japan.	3
HIST 213	World History, 600-2000.	3	EAST 370	History of Sexuality in Japan.	3
HIST 214	Early Modern Europe.	3	EAST 462	Japan in Asia.	3
HIST 215	Modern Europe.	3	EAST 493	Special Topics: East Asian Studies 1.	3
ISLA 200	Islamic Civilization.	3	EAST 494	Special Topics: East Asian Studies 2.	3
ISLA 210	Muslim Societies.	3	FREN 336	Histoire de la langue française.	3
ISLA 375	Sufi Women	3	GERM 331	Germany after Reunification.	3
ISLA 530	Advanced Sufism	3	GERM 357	German Culture in European Context.	3
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	GERM 364	Gender and Society in German Literature and Culture.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	GERM 365	Modern Short Fiction.	3
			GERM 368	Fin-de-Siècle Vienna.	3
POLI 231	Introduction to Political Theory.	3	HISP 437	Colonial / Postcolonial Latin America.	3
POLI 243	International Politics of Economic Relations.	3	ISLA 310	Women in Islam.	3
POLI 244	International Politics: State Behaviour.	3	ISLA 311	History of the City-Islamic World	3
SOCI 210	Sociological Perspectives.	3	ISLA 325	Introduction to Shi'i Islam.	3
SOCI 211	Sociological Inquiry.	3	ISLA 355	Modern History of the Middle East.	3

List B (24 credits)

Students in the History and Culture stream may choose from any course at the 200 level or above in the following departments and programs: History (HIST), Political Science (POLI), Sociology (SOCI) and Art History and Communication Studies (labelled COMS).

Students in this stream may also choose a maximum of 9 credits from the following list:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 355	Theories of Culture and Society.	3
ARTH 310	Postcolonialism.	3
ITAL 230	Understanding Italy.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 371	The Italian Baroque.	3
ITAL 400	Italian Regional Identities.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

			Course	Title	Credits
JWST 240	The Holocaust.	3	ISLA 200	Islamic Civilization.	3
JWST 306	The American Jewish Community.	3	ISLA 210	Muslim Societies.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 366	History of Zionism.	3	PHIL 230	Introduction to Moral Philosophy 1.	3
LIBA 395	Individual Reading Course.	3	PHIL 240	Political Philosophy 1.	3
LLCU 212	Understanding Digital and Social Media.	3	POLI 231	Introduction to Political Theory.	3
RELG 201	Religions of the Ancient Near East.	3	RELG 201	Religions of the Ancient Near East.	3
RELG 203	Bible and Western Culture.	3	RELG 203	Bible and Western Culture.	3
RELG 204	Judaism, Christianity and Islam.	3	RELG 204	Judaism, Christianity and Islam.	3
RELG 270	Religious Ethics and the Environment.	3	RELG 207	Introduction to the Study of Religions.	3
RELG 322	Church and Empire to 1300.	3	RELG 252	Hinduism and Buddhism.	3
RELG 323	Church and State since 1300.	3	RELG 253	Religions of East Asia.	3
RELG 326	Christians in the Roman World.	3	RELG 321	Western Intellectual Tradition.	3
RELG 331	Religion and Globalization.	3	RELG 334	Theology of History.	3
RELG 334	Theology of History.	3	RELG 341	Introduction: Philosophy of Religion.	3
RELG 338	Women and the Christian Tradition.	3	RELG 373	Christian Ethics of Love.	3
RELG 375	Religion, Politics and Society.	3	RELG 380	Religion, Philosophy, Modernity.	3
RUSS 217	Russia's Eternal Questions.	3	List B (24 credits)		
RUSS 229	Introduction to Russian Folklore.	3	Students in the Philosophy and Religion stream may choose from:		
RUSS 427	Russian Fin de Siècle.	3	<ul style="list-style-type: none"> • any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Philosophy (PHIL), Religious Studies (RELG), Catholic Studies (CATH), Islamic Studies (ISLA), and Jewish Studies (JWST); and 		
RUSS 428	Russian Avantgarde.	3	<ul style="list-style-type: none"> • any course in Political Science (POLI) listed in the Course Catalogue under the heading "Political Theory." 		
RUSS 430	High Stalinist Culture 1.	3			

Stream 3: Philosophy and Religion

This stream is designed for students whose primary interests lie in the study of philosophy and religion across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:

1. courses taught in the "core" disciplines in this stream, and
2. courses taught in other disciplines which are nevertheless pertinent to this stream.

Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

List A (6 credits)

Expand allContract all

			Course	Title	Credits
			ANTH 209	Anthropology of Religion.	3
			ANTH 318	Globalization and Religion.	3
			CLAS 203	Greek Mythology.	3
			CLAS 303	Ancient Greek Religion.	3
			ENVR 203	Knowledge, Ethics and Environment. ¹	3
			ENVR 400	Environmental Thought.	3
			GERM 355	Nietzsche and Wagner.	3
			GERM 367	Topics in German Thought.	3
			HIST 320	Themes in Intellectual History.	3
			HIST 350	Science and the Enlightenment.	3
			HIST 440	Fiction and History.	3
			ITAL 355	Dante and the Middle Ages.	3
			LIBA 395	Individual Reading Course.	3
			LLCU 301	Topics in Culture and Thought.	3

¹ ENVR 203 Knowledge, Ethics and Environment. is a prerequisite for ENVR 400 Environmental Thought..

Liberal Arts Honours (B.A.) (60 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students are able to choose among three intellectual streams: literature and the arts (including theatre and architecture); history, culture and society; and philosophy and religion. Students in each stream must satisfy a language requirement as well as distribution requirements in relation to minimum number of 300/400+ level courses; maximum number of courses in one discipline; geographical areas and historical periods.

Honours student must maintain a program GPA of 3.30 and an overall GPA of 3.00.

All students in the Honours Liberal Arts are also required to complete a Minor Concentration in a language program (other than English). Students who are native speakers of a language other than English are strongly encouraged to fulfill this requirement in a third language.

The approved language minors are:

- Minor Concentration in Classics (Language Stream)
- Minor Concentration in East Asian Language and Literature or Supplementary East Asian Language
- Minor Concentration in German Language
- Minor Concentration in Hispanic Languages
- Minor Concentration in Italian Studies
- Minor Concentration in Jewish Studies
- Minor Concentration in French Language and Literature - French Language
- Minor Concentration in World Islamic & Middle East Studies
- Minor Concentration in Russian
- Minor Concentration in Scriptural Languages

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Honours Liberal Arts students are required to take three courses designed to help them reflect on the contemporary significance of a Liberal Arts education and on their experience in the Liberal Arts program.

[Expand all](#)[Contract all](#)

Course	Title	Credits
LIBA 202	Introduction to Liberal Arts.	3
LIBA 402	Seminar in Liberal Arts.	3
LIBA 490	Honours Thesis.	3

Complementary Courses (51 credits)

Honours students must complete 51 credits in one of the three specialized streams set out below.

The distribution requirements for all streams are the following:

1. at least 9 credits from the 200-level introductory courses within one stream;
2. at least 24 credits must be from courses at the 300 level or above; at least 6 credits must be at the 400 level or above (language courses cannot count toward satisfying this requirement);
3. no more than 21 credits can be from a single discipline;
4. geographical area: at least 6 credits in coursework primarily emphasizing Africa and/or Asia, and at least 6 credits in coursework emphasizing Europe and/or the Americas or Australasia, and
5. historical periods: at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6 credits in coursework primarily emphasizing texts or history from 1500-1900 (a given course may satisfy both the geographical area and the historical period requirement).

Stream 1: Literature and the Arts (including Theatre & Architecture)

This stream is designed for students whose primary interests lie in the study of literature and the arts across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:

1. courses taught in the "core" disciplines in this stream, and
2. courses taught in other disciplines which are nevertheless pertinent to this stream.

Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 51 credits as follows:

9 credits from the courses in List A

42 credits from the courses in List B

List A (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3

ARTH 209	Introduction to Ancient Art and Architecture.	3	ARCH 251	Architectural History 2.	3
CLAS 203	Greek Mythology.	3	ARCH 354	Architectural History 3.	3
CLAS 301	Ancient Greek Literature and Society.	3	ARCH 355	Architectural History 4.	3
CLAS 302	Roman Literature and Society.	3	ARCH 531	Architectural Intentions Vitruvius - Renaissance.	3
EAST 211	Introduction: East Asian Culture: China.	3	ARCH 532	Origins of Modern Architecture.	3
EAST 212	Introduction: East Asian Culture: Japan.	3	ARTH 352	Feminism in Art and Art History.	3
EAST 213	Introduction: East Asian Culture: Korea.	3	EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 215	Introduction to East Asian Art.	3	EAST 308	Topics: East Asian Language and Literature 2.	3
ENGL 202	Departmental Survey of English Literature 1.	3	EAST 350	Gender and Sexuality in Chinese Literature.	3
ENGL 203	Departmental Survey of English Literature 2.	3	EAST 351	Women Writers of China.	3
ENGL 215	Introduction to Shakespeare.	3	EAST 352	Critical Approaches to Chinese Literature.	3
ENGL 230	Introduction to Theatre Studies.	3	EAST 353	Approaches to Chinese Cinema.	3
FREN 250	Littérature française avant 1800.	3	EAST 362	Japanese Cinema.	3
FREN 251	Littérature française depuis 1800.	3	EAST 453	Topics: Chinese Literature.	3
FREN 252	Littérature québécoise.	3	EAST 454	Topics: Chinese Cinema.	3
GERM 259	Introduction to German Literature 1.	3	EAST 461	Inventing Modern Japanese Novel.	3
HISP 225	Hispanic Civilization 1.	3	EAST 464	Image, Text, Performance.	3
ISLA 200	Islamic Civilization.	3	EAST 467	Topics: Japanese Cinema.	3
ISLA 210	Muslim Societies.	3	EAST 550	Classical Chinese Poetry Themes and Genres.	3
ITAL 230	Understanding Italy.	3	EAST 569	Advanced Topics: Japanese Literature.	3
ITAL 295	Italian Cultural Studies.	3	HIST 345	History of Italian Renaissance.	3
LLCU 220	Introduction to Literary Analysis.	3	HIST 405	Topics in Intellectual History.	3
RELG 203	Bible and Western Culture.	3	HIST 411	Topics in African History.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3	HIST 426	Topics: British Cultural History.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3	ISLA 385	Poetics and Politics in Arabic Literature.	3

Music: up to 9 credits of Music courses (labelled MUAR) can be selected in consultation with the Program Director.

List B (42 credits)

Students in the Literature and the Arts (including Theatre and Architecture) stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Architecture (ARCH), Art History and Communication Studies (labelled ARTH), Classics (CLAS), English (ENGL), French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), Languages, Literatures, and Cultures (LLCU), and Russian Studies (RUSS); and
- any course (other than a course dedicated to teaching a language) at the 200 level or above in Jewish Studies (JWST) listed in the Course Catalogue under the headings "Biblical Studies," "Languages and Literatures - Hebrew" and "Language and Literature - Yiddish."

Students in this stream may also choose a maximum of 12 credits from the following list:

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
ARCH 250	Architectural History 1.	3

Stream 2: History, Culture, and Society

This stream is designed for students whose primary interests lie in the study of history, culture, and society across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:

1. courses taught in the "core" disciplines in this stream, and
2. courses taught in other disciplines which are nevertheless pertinent to this stream.

Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 51 credits as follows:

9 credits from the courses in List A

42 credits from the courses in List B

List A (9 credits)

Expand allContract all

Course	Title	Credits			Credits
CATH 200	Introduction to Catholicism.	3	SOCI 210	Sociological Perspectives.	3
COMS 200	History of Communication.	3	SOCI 211	Sociological Inquiry.	3
COMS 210	Introduction to Communication Studies.	3			
COMS 230	Communication and Democracy.	3			
EAST 211	Introduction: East Asian Culture: China.	3			
EAST 212	Introduction: East Asian Culture: Japan.	3			
EAST 213	Introduction: East Asian Culture: Korea.	3			
EAST 215	Introduction to East Asian Art.	3			
HIST 200	Introduction to African History.	3			
HIST 201	Modern African History.	3			
HIST 202	Survey: Canada to 1867.	3			
HIST 203	Survey: Canada since 1867.	3			
HIST 205	Ancient Mediterranean History.	3			
HIST 207	Jewish History: 400 B.C.E. to 1000.	3			
HIST 208	Introduction to East Asian History.	3			
HIST 213	World History, 600-2000.	3			
HIST 214	Early Modern Europe.	3			
HIST 215	Modern Europe.	3			
ISLA 200	Islamic Civilization.	3			
ISLA 210	Muslim Societies.	3			
ISLA 375	Sufi Women	3			
ISLA 530	Advanced Sufism	3			
POLI 212	Introduction to Comparative Politics – Europe/North America.	3			
POLI 227	Introduction to Comparative Politics - Global South.	3			
POLI 231	Introduction to Political Theory.	3			
POLI 243	International Politics of Economic Relations.	3			
POLI 244	International Politics: State Behaviour.	3			

List B (42 credits)

Students in the History and Culture stream may choose from any course at the 200 level or above in the following departments and programs: History (HIST), Political Science (POLI), Sociology (SOCI) and Art History and Communication Studies (labelled COMS).

Students in this stream may also choose a maximum of 12 credits from the following list:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 355	Theories of Culture and Society.	3
ARTH 310	Postcolonialism.	3
CATH 340	Catholicism and Public Policy.	3
CLAS 203	Greek Mythology.	3
CLAS 308	Gender in the Ancient World.	3
CLAS 404	Classical Tradition.	3
CLAS 406	Greek and Roman Historiography.	3
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 370	History of Sexuality in Japan.	3
EAST 462	Japan in Asia.	3
EAST 493	Special Topics: East Asian Studies 1.	3
EAST 494	Special Topics: East Asian Studies 2.	3
FREN 336	Histoire de la langue française.	3
GERM 331	Germany after Reunification.	3
GERM 357	German Culture in European Context.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 368	Fin-de-Siècle Vienna.	3
HISP 437	Colonial / Postcolonial Latin America.	3
ISLA 310	Women in Islam.	3
ISLA 311	History of the City-Islamic World	3

ISLA 325	Introduction to Shi'i Islam.	3	Stream 3: Philosophy and Religion
ISLA 355	Modern History of the Middle East.	3	This stream is designed for students whose primary interests lie in the study of philosophy and religion across geographical boundaries and historical traditions.
ISLA 360	Islam and Politics in Africa	3	
ISLA 365	Middle East Since the 1970's.	3	
ISLA 410	History: Middle-East 1798-1918.	3	Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind:
ISLA 411	History: Middle-East 1918-1945.	3	
ISLA 415	Modern Iran: Anthropological Approach.	3	1. courses taught in the "core" disciplines in this stream, and
ISLA 420	Indo-Islamic Civilization: Medieval.	3	2. courses taught in other disciplines which are nevertheless pertinent to this stream.
ISLA 421	Islamic Culture - Indian Subcontinent.	3	
ISLA 580	Ottoman Institutions.	3	Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.
ITAL 230	Understanding Italy.	3	
ITAL 295	Italian Cultural Studies.	3	
ITAL 356	Medieval Discourses on Love.	3	The additional courses may be substituted with the approval of the Program Director.
ITAL 363	Gender, Literature and Society.	3	
ITAL 365	The Italian Renaissance.	3	Students must choose 51 credits as follows:
ITAL 371	The Italian Baroque.	3	9 credits from the courses in List A
ITAL 400	Italian Regional Identities.	3	42 credits from the courses in List B
JWST 211	Jewish Studies 1: Biblical Period.	3	
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	
JWST 217	Jewish Studies 3: 1000 - 2000.	3	
JWST 240	The Holocaust.	3	List A (9 credits)
JWST 306	The American Jewish Community.	3	Expand allContract all
JWST 361	The Shtetl: 1500-1897.	3	
JWST 365	Modern Jewish Ideologies.	3	
JWST 366	History of Zionism.	3	
LIBA 395	Individual Reading Course.	3	
LLCU 212	Understanding Digital and Social Media.	3	
RELG 201	Religions of the Ancient Near East.	3	
RELG 203	Bible and Western Culture.	3	
RELG 204	Judaism, Christianity and Islam.	3	
RELG 270	Religious Ethics and the Environment.	3	
RELG 322	Church and Empire to 1300 .	3	
RELG 323	Church and State since 1300.	3	
RELG 326	Christians in the Roman World.	3	
RELG 331	Religion and Globalization.	3	
RELG 334	Theology of History.	3	
RELG 338	Women and the Christian Tradition.	3	
RELG 375	Religion, Politics and Society.	3	
RUSS 217	Russia's Eternal Questions.	3	
RUSS 229	Introduction to Russian Folklore.	3	
RUSS 427	Russian Fin de Siècle.	3	
RUSS 428	Russian Avantgarde.	3	
RUSS 430	High Stalinist Culture 1.	3	

List B (42 credits)

Students in the Philosophy and Religion stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Philosophy (PHIL), Religious Studies (RELG), Catholic Studies (CATH), Islamic Studies (ISLA), and Jewish Studies (JWST); and

- any course in Political Science (POLI) listed in the Course Catalogue under the heading "Political Theory."

Students in this stream may also choose a maximum of 12 credits from the following list:

Expand allContract all

Course	Title	Credits
ANTH 209	Anthropology of Religion.	3
ANTH 318	Globalization and Religion.	3
CLAS 203	Greek Mythology.	3
CLAS 303	Ancient Greek Religion.	3
ENVR 203	Knowledge, Ethics and Environment. ¹	3
ENVR 400	Environmental Thought.	3
GERM 355	Nietzsche and Wagner.	3
GERM 367	Topics in German Thought.	3
HIST 320	Themes in Intellectual History.	3
HIST 350	Science and the Enlightenment.	3
HIST 440	Fiction and History.	3
ITAL 355	Dante and the Middle Ages.	3
LIBA 395	Individual Reading Course.	3
LLCU 301	Topics in Culture and Thought.	3

¹ ENVR 203 Knowledge, Ethics and Environment. is a prerequisite for ENVR 400 Environmental Thought..

Russian Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

Expand allContract all

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3

RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2.	3
RUSS 316	Intermediate Russian Language Intensive 2. ²	6
RUSS 327	Reading Russian Poetry.	3
RUSS 328	Readings in Russian.	3
RUSS 415	Advanced Russian Language Intensive 1. ³	6
RUSS 453	Advanced Russian Language and Syntax.	3

¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1. and RUSS 211 Elementary Russian Language 2..
² RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language 1. and RUSS 311 Intermediate Russian Language 2..
³ RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Russian Culture Minor Concentration (B.A.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Russian Culture is designed primarily as an adjunct to area studies and/or programs in the humanities or social sciences. There are no Russian language requirements.

This program may be expanded into a Major Concentration in Russian.

Complementary Courses (18 credits)

Courses offered by LLC may be accepted subject to approval by the Department.

18 credits selected with the following specifications:

At least 6 credits from Group A

6-12 credits from Group B

Group A

At least 6 credits from:

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3

Group B

6-12 credits from:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 229	Introduction to Russian Folklore.	3
RUSS 250	The Central European Novel.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3
RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2.	3
RUSS 316	Intermediate Russian Language Intensive 2. ²	6
RUSS 327	Reading Russian Poetry.	3
RUSS 328	Readings in Russian.	3
RUSS 415	Advanced Russian Language Intensive 1. ³	6
RUSS 453	Advanced Russian Language and Syntax.	3

¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1.

² or RUSS 211 Elementary Russian Language 2..

RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language

³ 1. or RUSS 311 Intermediate Russian Language 2..

RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Russian Major Concentration (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3
RUSS 229	Introduction to Russian Folklore.	3

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 250	The Central European Novel.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Students who have acquired language competency elsewhere will replace lower-level courses with upper-level courses. A total of 6 credits may be taken in courses offered by other departments in the Faculty; these are listed at the end of this section. Students are particularly encouraged to select from LLC course offerings.

For admission into the Honours program and approval of all course selections, students must regularly consult with an academic adviser in the Department.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Group A: Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
RUSS 452	Advanced Russian Language and Syntax 1.	3
RUSS 453	Advanced Russian Language and Syntax.	3
RUSS 490	Honours Seminar 01.	3
RUSS 491	Honours Seminar 02.	3

¹ Note: Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Complementary Courses (48 credits)

Group B: Russian Language

0 - 24 credits to be chosen from:

Expand allContract all

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1.	6
RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2.	3
RUSS 316	Intermediate Russian Language Intensive 2.	6
RUSS 415	Advanced Russian Language Intensive 1.	6

Note: Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group C or D.

Russian Honours (B.A.) (60 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The Honours Russian program is for students intending to pursue graduate studies or advanced careers in the field. Students must complete 60 credits in the program, and according to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Group C: 200 level

9 - 12 credits to be chosen from:

Expand all Contract all

Course	Title	Credits	Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3	ANTH 303	Ethnographies of Post-socialism.	3
RUSS 217	Russia's Eternal Questions.	3	HIST 216	Introduction to Russian History.	3
RUSS 218	Russian Literature and Revolution.	3	HIST 226	East Central and Southeastern Europe in 20th Century.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3	HIST 306	East Central Europe, 1944-2004.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3	HIST 313	Habsburg Monarchy, 1618-1918.	3
RUSS 229	Introduction to Russian Folklore.	3	HIST 316	History of the Russian Empire.	3
RUSS 250	The Central European Novel.	3	HIST 326	History of the Soviet Union.	3
			HIST 406	Topics: Russian History.	3
			HIST 576D1	Seminar: Topics in Russian History.	3
			HIST 576D2	Seminar: Topics in Russian History.	3
			JWST 303	The Soviet Jewish Experience.	3
			POLI 329	Russian Politics.	3
			POLI 331	Politics in East Central Europe.	3
			SOCI 455	Post-Socialist Societies.	3

Group D: 300 and 400 level

12 - 33 credits to be chosen from:

Expand all Contract all

Course	Title	Credits	
RUSS 327	Reading Russian Poetry.	3	
RUSS 328	Readings in Russian.	3	Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.
RUSS 330	Chekhov without Borders.	3	
RUSS 333	Petersburg: City of Myth.	3	
RUSS 337	Vladimir Nabokov.	3	Students are particularly encouraged to select from the growing options available under the LLC course offerings; these are subject to Departmental approval.
RUSS 340	Russian Short Story.	3	
RUSS 347	Late and Post-Soviet Culture.	3	
RUSS 350	Central European Film.	3	
RUSS 357	Leo Tolstoy.	3	
RUSS 358	Fyodor Dostoevsky.	3	
RUSS 365	Supernatural and Absurd in Russian Literature.	3	
RUSS 369	Narrative and Memory in Russian Culture.	3	
RUSS 381	Russia's Utopia Complex.	3	
RUSS 382	Russian Opera.	3	
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3	
RUSS 390	Special Topics in Russian.	3	
RUSS 397	Tarkovsky: Cinema and Philosophy.	3	
RUSS 398	Soviet Women Filmmakers.	3	
RUSS 427	Russian Fin de Siècle.	3	
RUSS 428	Russian Avantgarde.	3	
RUSS 430	High Stalinist Culture 1.	3	
RUSS 440	Russia and Its Others.	3	
RUSS 475	Special Topics in Russ Culture.	3	
RUSS 500	Special Topics.	3	
RUSS 501	Topics in Slavic Culture.	3	

Group E: LLC and Faculty of Arts

0 - 6 credits to be chosen from the following or their equivalent:

Expand all Contract all

Russian Joint Honours Component (B.A.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students must consult with advisers in the respective departments for approval of their course selection.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

The Honours thesis course, RUSS 490 Honours Seminar 01., is usually completed in the student's final year and is on a topic in Russian

literature or culture agreed upon in consultation with the student's thesis advisor. It is to be written independently from the thesis that is required by the second program in which the student is pursuing their Joint Honours degree

¹ Note: Students must submit their Russian thesis project proposals to the Russian Studies departmental adviser by March 15th or November 15th of the preceding term for independent research courses.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
RUSS 490	Honours Seminar 01.	3

Complementary Courses (33 credits)

33 credits selected from the following specifications:

Group A: Russian Language

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3
RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2. ²	3
RUSS 316	Intermediate Russian Language Intensive 2.	6
RUSS 327	Reading Russian Poetry.	3
RUSS 328	Readings in Russian. ³	3
RUSS 415	Advanced Russian Language Intensive 1.	6
RUSS 453	Advanced Russian Language and Syntax.	3

¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1. or RUSS 211 Elementary Russian Language 2..

² RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language 1. or RUSS 311 Intermediate Russian Language 2..

³ RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Group B

6-9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3
RUSS 229	Introduction to Russian Folklore.	3
RUSS 250	The Central European Novel.	3

Group C

6-9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Students must submit proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Group D: Languages, Literatures, and Cultures and Faculty of Arts

0-3 credits to be chosen from the following or their equivalent:

Expand allContract all

Course	Title	Credits
ANTH 303	Ethnographies of Post-socialism.	3
HIST 216	Introduction to Russian History.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 306	East Central Europe, 1944-2004.	3
HIST 313	Habsburg Monarchy, 1618-1918.	3
HIST 316	History of the Russian Empire.	3
HIST 326	History of the Soviet Union.	3
HIST 406	Topics: Russian History.	3
HIST 576D1	Seminar: Topics in Russian History.	3
HIST 576D2	Seminar: Topics in Russian History.	3
JWST 303	The Soviet Jewish Experience.	3
POLI 329	Russian Politics.	3
POLI 331	Politics in East Central Europe.	3
SOCI 455	Post-Socialist Societies.	3

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

Linguistics Minor Concentration (B.A.) (18 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Linguistics focuses on basic Linguistics, the scientific study of human language, including phonetics and syntax, theoretical linguistics (phonology, syntax and semantics); experimental linguistics (phonetics, laboratory phonology, language acquisition and psycholinguistics); computational linguistics; linguistic fieldwork and language revitalization; and language variation and change (sociolinguistics, dialectology and historical linguistics). The program is expandable to the Major Concentration in Linguistics.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 371	Syntax 1.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (9 credits)

9 credits in Linguistics chosen according to the student's interests.

At least 3 of these credits must be at the 400 or 500 level. Only 3 credits at the 200 level may count towards complementary credits. Students who take LING 360 Introduction to Semantics, as one of their complementary courses may also count one of the following courses that are its prerequisites toward the complementary course requirement:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

Linguistics Major Concentration (B.A.) (36 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Linguistics focuses on various aspects of linguistics, including theoretical linguistics (phonology, syntax and semantics); experimental linguistics (phonetics, laboratory phonology, language acquisition and psycholinguistics); computational linguistics; linguistic fieldwork and language revitalization; and language variation and change (sociolinguistics, dialectology and historical linguistics).

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 331	Phonology 1.	3
LING 360	Introduction to Semantics.	3
LING 371	Syntax 1.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (21 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

18 credits in Linguistics (LING) chosen according to the student's interests.

At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

Linguistics Honours (B.A.) (60 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The B.A. Honours in Linguistics program focuses on the various sub-areas of linguistics with substantial breadth and depth. The program includes an Honours Thesis that emphasizes the process of independent research.

Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330 Phonetics., LING 331 Phonology 1., LING 360 Introduction to Semantics., LING 371 Syntax 1., as well as LING 480D1 Honours Thesis./LING 480D2 Honours Thesis.. According to Faculty of Arts regulations, Honours students must also maintain a minimum CGPA of 3.00 in general. The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Honours Thesis.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 331	Phonology 1.	3
LING 360	Introduction to Semantics.	3
LING 371	Syntax 1.	3

LING 480D1	Honours Thesis.	3
LING 480D2	Honours Thesis.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (39 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

24 credits of Linguistics (LING) courses, 15 of the credits in Linguistics must be at the 400/500 level and only 3 credits in Linguistics can be at the 200 level.

Other Fields

12 credits in related fields selected from the following list.

Computer Science

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 230	Logic and Computability.	3
COMP 250	Introduction to Computer Science.	3

French Language and Literature

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 336	Histoire de la langue française.	3
FREN 434	Sociolinguistique du français.	3

Language

Any course in language (other than the student's native language) - literature courses are not acceptable.

Mathematics

Expand allContract all

Course	Title	Credits
MATH 240	Discrete Structures.	3

Philosophy

Expand allContract all

Course	Title	Credits
PHIL 306	Philosophy of Mind.	3
PHIL 415	Philosophy of Language.	3

Psychology

Expand allContract all

Course	Title	Credits	LING 371	Syntax 1.	3
PSYC 311	Human Cognition and the Brain.	3	LING 481D1	Joint Honours Thesis.	1.5
PSYC 340	Psychology of Language.	3	LING 481D2	Joint Honours Thesis.	1.5
PSYC 341	The Psychology of Bilingualism.	3			
PSYC 433	Cognitive Science.	3			
PSYC 530	Applied Topics in Deafness.	3			

Statistics

Any course in statistics (from any department).

Linguistics Joint Honours Component (B.A.) (36 credits)

Offered by: Linguistics (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see the "Overview of Programs Offered" page.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330 Phonetics., LING 331 Phonology 1., LING 360 Introduction to Semantics., LING 371 Syntax 1., as well as in the Joint Honours Thesis, LING 481D1 Joint Honours Thesis./LING 481D2 Joint Honours Thesis.. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 331	Phonology 1.	3
LING 360	Introduction to Semantics.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

15 credits in Linguistics courses (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 levels.

Only 3 credits at the 200 level may count towards complementary credits.

Études et pratiques littéraires Concentration Mineure (B.A.) (18 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Description du Programme

Ce programme offre une introduction aux études littéraires de langue française et aux différentes pratiques littéraires que sont la création, la traduction et l'édition. Il vise également à fournir à chaque étudiant(e) les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission au programme nécessite une bonne connaissance du français lu, écrit et parlé.

Cours Complémentaires (18 crédits)

3 crédits choisis parmi les cours d'introduction suivants :

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3

15 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

Orientation A : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

Orientation B: « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

I) Bloc: Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3
FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

(B) Série « Langue française »

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

(C) Série « Théorie »

Expand allContract all

Course	Title	Credits
FREN 334	L'œuvre au miroir de la critique.	3
FREN 335	Théories littéraires 1.	3
FREN 337	Textes, imaginaires, sociétés.	3
FREN 375	Théories littéraires 2.	3
FREN 391	Savoirs de la littérature 1.	3
FREN 394	Théories de la traduction .	3
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3
FREN 425	Traduction et culture.	3
FREN 496	Savoirs de la littérature 2.	3

II) Bloc: Pratiques

Liste des cours

(a) Série « Crédit »

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 340	Atelier d'écriture narrative.	3
FREN 440	Atelier d'écriture dramatique.	3
FREN 460	Atelier d'écriture.	3

(B) Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

(C) Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3

FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 492	Histoire de la traduction.	3
FREN 494	Traduction spécialisée.	3

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

Études et pratiques littéraires Concentration (B.A.) (36 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Ce programme offre une formation générale qui inclut l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. Cette formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. L'étude de la littérature s'y fait à travers les différentes pratiques que sont la création, la traduction et l'édition. Tou(te)s les étudiant(e)s sont amené(e)s à suivre aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires ; ils et elles doivent cependant choisir une majorité de cours dans l'un ou l'autre grand domaine. L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Cours Obligatoires (12 crédits)

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 333	Questions de littérature du Moyen Âge et de l'Ancien Régime.	3
FREN 444	Questions de littérature moderne.	3
FREN 450	Questions de littérature québécoise.	3

Cours Complémentaires (24 crédits)

24 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

Orientation A - « Études littéraires »

de 3 à 9 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre au moins l'un des deux cours suivants :

Expand allContract all

Course	Title	Credits
FREN 245	Grammaire normative.	3
FREN 356	Grammaire du texte littéraire.	3

de 9 à 15 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

de 3 à 9 crédits choisis parmi les cours de la série « Théorie » ;

de 3 à 9 crédits choisis parmi les cours du bloc « Pratiques ».

Orientation B - « Pratiques littéraires »

de 3 à 6 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre l'un des cours suivants :

Expand allContract all

Course	Title	Credits
FREN 245	Grammaire normative.	3
FREN 356	Grammaire du texte littéraire.	3

au moins 6 crédits choisis parmi les cours du bloc « Études » ;

de 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3

au moins 6 crédits choisis parmi les cours de la série « Création » ;

0 à 6 crédits choisis parmi les cours du bloc « Pratiques ».

I) Bloc : Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3

FREN 355	Littérature du 20e siècle 1.	3	II) Bloc : Pratiques	
FREN 360	La littérature du 19e siècle 1.	3	(a) Série « Création »	
FREN 362	La littérature du 17e siècle 1.	3	Expand allContract all	
FREN 364	La littérature du 18e siècle 1.	3	Course	Title
FREN 366	Littérature de la Renaissance 1.	3	FREN 240	Atelier d'écriture poétique.
FREN 372	Littérature québécoise 1.	3	FREN 320	Traduire, écrire, expérimenter.
FREN 380	Littératures francophones 1.	3	FREN 340	Atelier d'écriture narrative.
FREN 381	Littératures francophones 2.	3	FREN 440	Atelier d'écriture dramatique.
FREN 382	Littérature québécoise 2.	3	FREN 460	Atelier d'écriture.
FREN 453	Littérature du 20e siècle 2.	3	(b) Série « Édition »	
FREN 455	La littérature médiévale 1.	3	Expand allContract all	
FREN 456	La littérature médiévale 2.	3	Course	Title
FREN 457	La littérature de la Renaissance 2.	3	FREN 376	Correction et révision.
FREN 458	La littérature du 17e siècle 2.	3	FREN 377	Pratiques de l'édition littéraire.
FREN 459	La littérature du 18e siècle 2.	3	FREN 476	Le livre.
FREN 461	Enjeux littéraires et culturels 1.	3	(c) Série « Traduction »	
FREN 472	Enjeux littéraires et culturels 2.	3	Expand allContract all	
FREN 480	Littérature québécoise contemporaine.	3	Course	Title
FREN 482	La littérature du 19e siècle 2.	3	FREN 239	Stylistique comparée.
FREN 485	Littérature française contemporaine.	3	FREN 244	Traduction générale.
FREN 498	Questions de littérature 3.	3	FREN 320	Traduire, écrire, expérimenter.
(b) Série « Langue française »				
Expand allContract all				
Course	Title	Credits	FREN 324	Traduction littéraire.
FREN 231	Linguistique française.	3	FREN 341	Traduction et recherche.
FREN 245	Grammaire normative.	3	FREN 346	Traduction pragmatique.
FREN 313	Langage et littérature 1.	3	FREN 347	Terminologie générale.
FREN 336	Histoire de la langue française.	3	FREN 349	Traduction et actualité .
FREN 356	Grammaire du texte littéraire.	3	FREN 431	Traduction et révision.
FREN 434	Sociolinguistique du français.	3	FREN 441	Traduction français-anglais.
FREN 491	Langage et littérature 2.	3	FREN 443	Traduire la littérature.
(c) Série « Théorie »				
Expand allContract all				
Course	Title	Credits	NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.	
FREN 334	L'oeuvre au miroir de la critique.	3		
FREN 335	Théories littéraires 1.	3		
FREN 337	Textes, imaginaires, sociétés.	3		
FREN 375	Théories littéraires 2.	3		
FREN 391	Savoirs de la littérature 1.	3		
FREN 394	Théories de la traduction .	3		
FREN 420	Enjeux de l'écriture littéraire.	3		
FREN 422	Le métier d'écrivain-e.	3		
FREN 425	Traduction et culture.	3		
FREN 496	Savoirs de la littérature 2.	3		

Études et pratiques littéraires Spécialisation Enrichie (B.A.) (72 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 72

Description du Programme

Ce programme, qui prépare aux études supérieures, offre une formation spécialisée incluant l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. La formation vise également à fournir aux étudiant(e)s une initiation

à la recherche et les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Les étudiant(e)s suivent aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires. Ils et elles doivent en outre se spécialiser dans l'un ou l'autre grand domaine en choisissant entre trois orientations : « Études littéraires », « Création littéraire » et « Traduction littéraire ». L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé. Moyennes minimales requises : 3,00 pour l'ensemble des cours du programme et un CGPA de 3,00.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Cours Obligatoires (21 crédits)

Le Baccalauréat ès Arts compte normalement 90 crédits (ou 120 crédits pour les étudiant(e)s admis en U0). L'étudiant(e) qui s'inscrit au programme « B.A. ; Spécialisation enrichie en Langue & littérature françaises ; option « Études et pratiques littéraires » s'assurera de cumuler, en plus des 72 crédits de spécialisation enrichie, une balance de 18 crédits. L'étudiant(e) peut mobiliser ces 18 crédits comme il ou elle le souhaite. Il ou elle peut cumuler ces crédits au DLLF ou ailleurs, en respectant les limites fixées par l'Université. Il ou elle n'a pas l'obligation de compléter une concentration mineure dans un autre programme mais il ou elle a la possibilité de le faire (auquel cas on s'assurera de respecter les exigences fixées par le département visé).

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 333	Questions de littérature du Moyen Âge et de l'Ancien Régime.	3
FREN 444	Questions de littérature moderne.	3
FREN 450	Questions de littérature québécoise.	3
FREN 464D1	Mémoire de spécialisation.	3
FREN 464D2	Mémoire de spécialisation.	3
FREN 595	Séminaire avancé de recherche.	3

Cours Complémentaires (51 crédits)

De 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 245	Grammaire normative.	3
FREN 356	Grammaire du texte littéraire.	3

L'étudiant(e) doit choisir entre trois orientations - « A : Études littéraires », « B : Création littéraire » ou « C : Traduction littéraire » - et répartir les 45 à 48 crédits restants de la façon suivante :

Orientation A - Études littéraires

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;

au moins 9 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;

au moins 9 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;

de 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 335	Théories littéraires 1.	3
FREN 375	Théories littéraires 2.	3

au moins 3 crédits choisis parmi tous les cours de la série « Théorie » ;

au moins 3 crédits choisis parmi les cours du bloc « Pratiques » ;

de 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;

les crédits restants (de 3 à 18) seront choisis parmi les blocs « Études » ou « Pratiques ».

Orientation B - Création littéraire

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;

au moins 6 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;

au moins 6 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;

de 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3

au moins 3 crédits choisis parmi tous les cours de la série « Théorie » ;

au moins 12 crédits choisis parmi les cours de la série « Création » ;

au moins 3 crédits choisis parmi les cours des séries « Édition » et « Traduction » ;

0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;

les crédits restants (de 0 à 12) seront choisis parmi les blocs « Études » ou « Pratiques ».

Orientation C - Traduction littéraire

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;

au moins 3 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;

au moins 3 crédits choisis parmi les cours de théorie suivants :

Expand allContract all

Course	Title	Credits
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3
FREN 492	Histoire de la traduction.	3
	au moins 3 crédits choisis parmi tous les cours de la série « Théorie » ;	
	au moins 12 crédits choisis parmi les cours suivants :	
	Expand allContract all	
Course	Title	Credits
FREN 239	Stylistique comparée. <small>1</small>	3
FREN 244	Traduction générale. <small>2</small>	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique. <small>3</small>	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3

au moins 3 crédits choisis parmi les cours des séries « Création » et « Édition » ;

de 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;

les crédits restants (de 3 à 18) seront choisis parmi les cours des blocs « Études » ou « Pratiques » ou encore parmi les autres cours pratiques de traduction de l'ÉEP.

Liste de cours

I) Bloc: Études

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
	FREN 366	Littérature de la Renaissance 1.
	FREN 372	Littérature québécoise 1.
	FREN 380	Littératures francophones 1.
	FREN 381	Littératures francophones 2.
	FREN 382	Littérature québécoise 2.
	FREN 453	Littérature du 20e siècle 2.
	FREN 455	La littérature médiévale 1.
	FREN 456	La littérature médiévale 2.
	FREN 457	La littérature de la Renaissance 2.
	FREN 458	La littérature du 17e siècle 2.
	FREN 459	La littérature du 18e siècle 2.
	FREN 461	Enjeux littéraires et culturels 1.
	FREN 472	Enjeux littéraires et culturels 2.
	FREN 480	Littérature québécoise contemporaine.
	FREN 482	La littérature du 19e siècle 2.
	FREN 485	Littérature française contemporaine.
	FREN 498	Questions de littérature 3.

(b) Série « Langue française »

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

(c) Série « Théorie »

Expand allContract all

Course	Title	Credits
FREN 334	L'oeuvre au miroir de la critique.	3
FREN 335	Théories littéraires 1.	3
FREN 337	Textes, imaginaires, sociétés.	3
FREN 375	Théories littéraires 2.	3
FREN 391	Savoirs de la littérature 1.	3
FREN 394	Théories de la traduction . <small>1</small>	3
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e. <small>1</small>	3
FREN 425	Traduction et culture. <small>1</small>	3
FREN 496	Savoirs de la littérature 2.	3

II) Bloc : Pratiques

(a) Série « Création »

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3

FREN 340	Atelier d'écriture narrative.
FREN 440	Atelier d'écriture dramatique.
FREN 460	Atelier d'écriture.

(b) Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

(c) Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée. ²	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter. ⁵	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique. ³	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité. ⁷	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais. ⁴	3
FREN 443	Traduire la littérature.	3
FREN 492	Histoire de la traduction. ⁶	3
FREN 494	Traduction spécialisée.	3

Bloc : Cours Hors Département

Seuls les cours offerts par les unités d'enseignement ou dans le cadre des programmes ci-dessous sont autorisés et reconnus par le DLLF comme cours complémentaires. Pour tous les cours qui portent un sigle n'apparaissant pas dans la liste, on consultera la direction des études de premier cycle du DLLF.

- African Studies (AFRI)
- Anthropology (ANTH)
- Art History and Communication Studies (ARTH) (COMS)
- Classical Studies (CLAS)
- East Asian Studies (EAST)
- English (ENGL)
- German Studies (GERM)
- Hispanic Studies (HISP)
- History (HIST)
- Institute for Gender, Sexuality and Feminist Studies (GSFS)
- Institute of Islamic Studies (ISLA)
- Italian Studies (ITAL)
- Jewish Studies (JWST)
- Languages, Literatures and Cultures (LLCU)
- Linguistics (LING)

- McGill Institute for the Study of Canada / Institut d'études canadiennes de McGill (Canadian Studies: CANS) (Indigenous Studies: INDG)
- Philosophy (PHIL)
- Quebec Studies / Programme d'études sur le Québec (QCST)
- Russian Studies (RUSS)
- School of Religious Studies/Études religieuses (RELG)
- Sexual Diversity Studies (SDST)
- Sociology (SOCI)
- Women's Studies (WMST)
- World Cinemas (FILM)

Études et pratiques littéraires Double Spécialisation (B.A.) (36 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts, Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Ce programme, qui prépare aux études supérieures, offre une formation spécialisée incluant l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. La formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Les étudiant(e)s suivent aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires. Ils et elles doivent en outre se spécialiser dans l'un ou l'autre grand domaine en choisissant entre trois orientations : « Études littéraires », « Crédit littéraire » et « Traduction littéraire ». L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé. Moyennes minimales requises : 3,00 pour l'ensemble des cours du programme et un CGPA de 3,00. Pour les détails quant aux jumelages possibles, consulter le site Web de la Faculté des Arts.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Cours Obligatoires (18 crédits)

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 333	Questions de littérature du Moyen Âge et de l'Ancien Régime.	3
FREN 444	Questions de littérature moderne.	3
FREN 450	Questions de littérature québécoise.	3
FREN 464D1	Mémoire de spécialisation.	3
FREN 464D2	Mémoire de spécialisation.	3

Cours Complémentaires (18 crédits)

L'étudiant(e) doit choisir entre trois orientations :

« A : Études littéraires », « B : Création littéraire » ou « C : Traduction littéraire » :

Orientation A - Études littéraires

de 6 à 9 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

au moins 3 crédits choisis parmi les cours du bloc « Pratiques ».

Orientation B - Crédit littéraire

de 6 à 9 crédits choisis parmi les cours de la série « Crédit » ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

Au moins 3 crédits choisis parmi les séries « Édition » et « Traduction » du bloc « Pratiques ».

Orientation C - Traduction littéraire

de 12 à 15 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3

De 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3

FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

I) Bloc : Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3
FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

(b) Série « Langue française »

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

(c) Série « Théorie »

Expand allContract all

Course	Title	Credits
FREN 334	L'oeuvre au miroir de la critique.	3
FREN 335	Théories littéraires 1.	3
FREN 337	Textes, imaginaires, sociétés.	3
FREN 375	Théories littéraires 2.	3
FREN 391	Savoirs de la littérature 1.	3
FREN 394	Théories de la traduction .	3
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3
FREN 425	Traduction et culture.	3
FREN 496	Savoirs de la littérature 2.	3

II) Bloc : Pratiques**(a) Série « Création »**

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 340	Atelier d'écriture narrative.	3
FREN 440	Atelier d'écriture dramatique.	3
FREN 460	Atelier d'écriture.	3

(b) Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

(c) Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 492	Histoire de la traduction.	3
FREN 494	Traduction spécialisée.	3

**Langue française
Concentration Mineure (B.A.)
(18 crédits)****Offered by:** French Language & Literature (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18**Description du Programme**

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue française ») » est offert en collaboration avec le Centre d'enseignement du français. Il s'adresse à des étudiant(e)s de français langue seconde qui ont déjà une bonne connaissance de la langue. Il vise l'acquisition d'un niveau de français équivalent au niveau B2 (« utilisateur expérimenté ») du Cadre européen de référence pour les langues dans les sphères universitaire, professionnelle, publique et personnelle.

Cette concentration mineure ne peut pas être convertie en concentration majeure. Pour être admis(e), l'étudiant(e) doit passer un test de classement au Centre d'enseignement du français.

Cours Complémentaires (18 crédits)

De 3 à 15 crédits de cours FRSL (Centre d'enseignement du français) répartis de la façon suivante :

De 0 à 6 crédits choisis parmi les cours ci-dessous :

Expand allContract all

Course	Title	Credits
FRSL 321D1	Oral and Written French 2.	3
FRSL 321D2	Oral and Written French 2.	3
FRSL 325	Oral and Written French 2 - Intensive.	6
FRSL 332	Intermediate French: Grammar 01.	3
FRSL 333	Intermediate French: Grammar 02.	3
FRSL 407	Compréhension et expression orales.	3
FRSL 408	Français oral: Textes et expressions.	3

De 0 à 6 crédits choisis parmi les cours ci-dessous :

Expand allContract all

Course	Title	Credits
FRSL 431	Français fonctionnel avancé.	6

De 3 à 12 crédits choisis parmi les cours ci-dessous :

Expand allContract all

Course	Title	Credits
FRSL 445	Français fonctionnel, écrit 1.	3
FRSL 446	Français fonctionnel, écrit 2.	3
FRSL 449	Le français des médias.	3
FRSL 455	Grammaire et création.	3

De 3 à 15 crédits choisis parmi les cours FREN suivants

Expand allContract all		Course	Title	Credits
Course	Title			Credits
FREN 201	Le français littéraire (français langue seconde).	3	FREN 239 Stylistique comparée.	3
FREN 203	Analyse de textes (français langue seconde) .	3	FREN 320 Traduire, écrire, expérimenter.	3
FREN 231	Linguistique française.	3	FREN 324 Traduction littéraire.	3
FREN 239	Stylistique comparée.	3	FREN 341 Traduction et recherche.	3
FREN 244	Traduction générale.	3	FREN 346 Traduction pragmatique.	3
FREN 245	Grammaire normative.	3	FREN 347 Terminologie générale.	3
FREN 250	Littérature française avant 1800.	3	FREN 349 Traduction et actualité .	3
FREN 251	Littérature française depuis 1800.	3	FREN 431 Traduction et révision.	3
FREN 252	Littérature québécoise.	3	FREN 441 Traduction français-anglais.	3
FREN 346	Traduction pragmatique.	3	FREN 443 Traduire la littérature.	3
FREN 441	Traduction français-anglais.	3	FREN 494 Traduction spécialisée.	3

¹ Pour s'inscrire aux cours FREN 201 Le français littéraire (français langue seconde). ou FREN 203 Analyse de textes (français langue seconde) ., l'étudiant(e) s'assurera d'avoir réussi le FRSL 431 Français fonctionnel avancé. ou d'avoir réussi ou être inscrit(e) à au moins un des cours suivants : FRSL 445 Français fonctionnel, écrit 1., FRSL 446 Français fonctionnel, écrit 2., FRSL 449 Le français des médias. ou FRSL 455 Grammaire et création..

Traduction Concentration Mineure (B.A.) (18 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Description du Programme

Le programme de « Concentration mineure en Langue et littérature françaises (option « Traduction ») » offre une introduction à la traduction de l'anglais vers le français. Il favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission nécessite une bonne connaissance du français et de l'anglais lus et écrits, ainsi que du français parlé; cette connaissance est vérifiée à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée.

Cours Obligatoires (3 crédits)

Expand allContract all		Credits
Course	Title	
FREN 244	Traduction générale.	3

Cours Complémentaires (15 crédits)

6 à 12 crédits choisis parmi les cours suivants :

Expand allContract all

3 à 9 crédits choisis parmi les cours suivants :

Expand allContract all		Credits
Course	Title	
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3
FREN 492	Histoire de la traduction.	3

Traduction Concentration (B.A.) (36 crédits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Le programme de « Concentration majeure en Langue et littérature françaises (option « Traduction ») » offre une formation générale en traduction de l'anglais vers le français. D'abord pratique, cette formation fournit également des assises théoriques sur le fonctionnement de la langue ou les enjeux de la traduction. Elle favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français, compétences que l'étude de la littérature de langue française viendra renforcer. L'admission au programme nécessite une bonne connaissance du français et de l'anglais lus et écrits, de même que du français parlé ; cette connaissance est vérifiée

à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Cours Obligatoires (9 crédits)

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 244	Traduction générale.	3
FREN 245	Grammaire normative.	3

Cours Complémentaires (27 crédits)

De 12 à 18 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 494	Traduction spécialisée.	3

De 3 à 6 crédits choisis parmi les cours suivants:

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire. ¹	3
FREN 394	Théories de la traduction . ¹	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3
FREN 492	Histoire de la traduction.	3

¹ L'étudiant(e) peut suivre FREN 394 Théories de la traduction . et/ou le FREN 425 Traduction et culture.

6 à 9 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800).

0 à 3 crédits choisis parmi les séries « Crédit » et « Édition » du bloc « Pratiques ».

Bloc: Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3

FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

II) Bloc: Pratiques

(a) Série « Crédit »

Expand allContract all

Course	Title	Credits	Expand allContract all
FREN 240	Atelier d'écriture poétique.	3	
FREN 320	Traduire, écrire, expérimenter.	3	
FREN 340	Atelier d'écriture narrative.	3	
FREN 440	Atelier d'écriture dramatique.	3	
FREN 460	Atelier d'écriture.	3	

(b) Série: « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

Mathematics Minor Concentration (B.A.) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Expandable Version: Required Courses (12 credits)

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 235	Algebra 1. ¹	3
MATH 236	Algebra 2.	3
MATH 315	Ordinary Differential Equations.	3

¹ Note: Credit cannot be received for both MATH 236 Algebra 2. and MATH 223 Linear Algebra. (listed as a required course in the non-expandable version of this Minor concentration).

Expandable Version: Complementary Courses (6 credits)

Students selecting the expandable version of this program complete 6 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 Probability. as a complementary course.

Non-Expandable Version: Required Courses (9 credits)

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra. ¹	3
MATH 315	Ordinary Differential Equations.	3

¹ Note: Credit cannot be received for both MATH 223 Linear Algebra. and MATH 236 Algebra 2. (listed as a required course in the expandable version of this Minor concentration).

Non-Expandable Version: Complementary Courses (9 credits)

Students selecting the non-expandable version of this program complete 9 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 Probability. as a complementary course.

Complementary Course List

[Expand all](#)[Contract all](#)

Course	Title	Credits		Credits
MATH 249	Honours Complex Variables.	3		
MATH 314	Advanced Calculus.	3		
MATH 316	Complex Variables.	3		
MATH 317	Numerical Analysis.	3		
MATH 318	Mathematical Logic.	3		
MATH 319	Partial Differential Equations .	3		
MATH 323	Probability.	3		
MATH 324	Statistics.	3		
MATH 326	Nonlinear Dynamics and Chaos.	3		
MATH 327	Matrix Numerical Analysis.	3		
MATH 340	Discrete Mathematics.	3		
MATH 346	Number Theory.	3		
MATH 348	Euclidean Geometry.	3		
MATH 417	Linear Optimization.	3		
MATH 451	Introduction to General Topology.	3		

¹ Note: Either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. may be taken but not both.

Mathematics Concentration (Supplementary Minor) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

This Minor concentration is open only to students registered in the Major Concentration Mathematics. Taken together, these two concentrations constitute a program equivalent to the Major in Mathematics offered by the Faculty of Science.

No course overlap between the Major Concentration Mathematics and the Supplementary Minor Concentration in Mathematics is permitted.

Note that according to the Faculty of Arts Multi-track System degree requirements, option C, students registered in the Supplementary Minor Concentration in Mathematics must also complete another minor concentration in a discipline other than Mathematics.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

Required Course (3 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 315	Ordinary Differential Equations.	3

¹ Note: If MATH 315 Ordinary Differential Equations. has already been taken as part of the Major Concentration Mathematics, an additional 3-credit complementary course must be taken to replace it.

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 249	Honours Complex Variables.	3
MATH 316	Complex Variables.	3

¹ Note: If either of MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. has been taken as part of the Major Concentration Mathematics, another 3-credit complementary course must be taken.

12 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 319	Partial Differential Equations .	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 340	Discrete Mathematics.	3
MATH 346	Number Theory.	3
MATH 348	Euclidean Geometry.	3
MATH 352	Problem Seminar.	1
MATH 378	Nonlinear Optimization .	3
MATH 410	Majors Project.	3
MATH 417	Linear Optimization.	3
MATH 423	Applied Regression.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 463	Convex Optimization.	3
MATH 523	Generalized Linear Models.	4

MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4

Statistics Minor Concentration (B.A.) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

Expand allContract all		
Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Required Courses (15 credits)

Expand allContract all		
Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 223	Linear Algebra. ¹	3
MATH 323	Probability. ¹	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3

¹ Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222 Calculus 3., MATH 223 Linear Algebra, and MATH 323 Probability, must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 Linear Algebra, and MATH 236 Algebra 2. (listed as a required course in the Major Concentration Mathematics).

Complementary Courses (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 317	Numerical Analysis.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

Statistics Concentration (Supplementary Minor) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

Students may complete this program with a minimum of 18 credits or a maximum of 20 credits.

Taken together with the B.A.; Major Concentration in Statistics, this program constitutes an equivalent of the B.Sc.; Major in Statistics program offered by the Faculty of Science. It provides training in statistics, with a mathematical core and basic training in computing. With satisfactory performance in an appropriate selection of courses, these two programs can lead to the accreditation "A.Stat" from the Statistical Society of Canada, which is regarded as the entry level requirement for a statistician practicing in Canada.

This supplementary minor concentration is open only to students registered in the B.A.; Major Concentration in Statistics. Taken together, these two programs constitute a program equivalent to the B.Sc.; Major in Statistics offered by the Faculty of Science. No course overlap between the B.A.; Major Concentration in Statistics and the B.A.; Supplementary Minor Concentration in Statistics is permitted.

Note that according to the Faculty of Arts Multi-Track System degree requirements, option C, students registered in the B.A.; Supplementary Minor Concentration in Statistics must also complete another minor concentration in a discipline other than Mathematics and Statistics. For more information about the Multi-Track System options, please refer to Faculty of Arts regulations under "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs."

This supplementary minor concentration is open only to students registered in the B.A.; Major Concentration in Statistics. Taken together, these two programs constitute a program equivalent to the B.Sc.; Major in Statistics offered by the Faculty of Science. No course overlap between the B.A.; Major Concentration in Statistics and the B.A.; Supplementary Minor Concentration in Statistics is permitted.

Note that according to the Faculty of Arts Multi-Track System degree requirements, option C, students registered in the B.A.; Supplementary Minor Concentration in Statistics must also complete another minor concentration in a discipline other than Mathematics and Statistics. For more information about the Multi-Track System options, please refer to Faculty of Arts regulations under "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs."

Guidelines for Course Selection

Students are strongly advised to complete all required courses and all Part I and Part II complementary courses by the end of U2, except for MATH 423 Applied Regression..

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions, and to take MATH 556 Mathematical Statistics 1. and MATH 557 Mathematical Statistics 2. as complementary courses.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MATH 243	Analysis 2.	3
MATH 423	Applied Regression. ¹	3

¹ If MATH 423 Applied Regression. has been taken as part of the B.A.; Major Concentration in Statistics, another 3-credit complementary course from Part II must be taken.

Complementary Courses (12-14 credits)

Part I: 3 credits selected from :

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
COMP 250	Introduction to Computer Science.	3

¹ Students who have sufficient knowledge in programming are encouraged to take COMP 250 Introduction to Computer Science..

Part II: 3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 350	Numerical Computing. ¹	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
MATH 316	Complex Variables. ¹	3
MATH 317	Numerical Analysis.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 340	Discrete Mathematics.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 378	Nonlinear Optimization .	3
MATH 417	Linear Optimization.	3
MATH 430	Mathematical Finance.	3
MATH 463	Convex Optimization.	3

¹ Students can take either MATH 317 Numerical Analysis. or COMP 350 Numerical Computing., but not both.

Part III: 6-8 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 551	Applied Machine Learning.	4
MATH 308	Fundamentals of Statistical Learning. ¹	3
MATH 410	Majors Project. ¹	3
MATH 420	Independent Study. ¹	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications. ¹	4
MATH 527D1	Statistical Data Science Practicum. ¹	3
MATH 527D2	Statistical Data Science Practicum. ¹	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 598	Topics in Probability & Statistics ¹	4
WCOM 314	Communicating Science.	3

¹ Students can take at most one of MATH 410 Majors Project., MATH 420 Independent Study., MATH 571 Higher Algebra 2. and WCOM 314 Communicating Science..

Statistics Major Concentration (B.A.) (46 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 46

Program Description

The program provides training in statistics with a mathematical core. Taken together with the B.A.; Supplementary Minor Concentration in Statistics, these two programs constitute an equivalent of the B.Sc.; Major in Statistics program offered by the Faculty of Science. With satisfactory performance in an appropriate selection of courses, these two programs can lead to the accreditation "A.Stat" from the Statistical Society of Canada, which is regarded as the entry level requirement for a statistician practicing in Canada. Students interested in this accreditation should consult an academic advisor.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Guidelines for Course Selection

Students who received advanced standing or the CEGEP equivalent of the 100-level Math courses listed below are no longer required to take them. Whenever an exemption without credits is granted for a 200-level and above required Math course, the latter must be replaced with a complementary course chosen in consultation with a program advisor.

Students are strongly advised to complete all required courses by the end of U2.

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Required Courses (34 credits)

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 203	Principles of Statistics 1. ¹	3
MATH 204	Principles of Statistics 2. ²	3
MATH 208	Introduction to Statistical Computing.	3

MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 242	Analysis 1.	3
MATH 323	Probability. ²	3
MATH 324	Statistics.	3

¹ Students who have taken an equivalent of MATH 203 Principles of Statistics 1. at CEGEP or elsewhere must replace it by another course

² Students must take MATH 204 Principles of Statistics 2. before taking MATH 324 Statistics..

Complementary Courses (12 credits)

12 credits from:

Course	Title	Credits
COMP 551	Applied Machine Learning.	4
MATH 308	Fundamentals of Statistical Learning. ¹	3
MATH 410	Majors Project.	3
MATH 420	Independent Study. ¹	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 527D1	Statistical Data Science Practicum. ¹	3
MATH 527D2	Statistical Data Science Practicum. ¹	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 598	Topics in Probability & Statistics ¹	4
WCOM 314	Communicating Science.	3

¹ Students can take at most one of MATH 410 Majors Project., MATH 420 Independent Study., MATH 527D1 Statistical Data Science Practicum./MATH 527D2 Statistical Data Science Practicum. and WCOM 314 Communicating Science..

Statistics Honours (B.A.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts

Program credit weight: 63

Program Description

The B.Sc.: Honours in Statistics provides training, at the honours level, in statistics, with a solid mathematical core, and basic training in computing. With a suitable selection of complementary courses, the program can focus on probability, mathematical statistics, applied statistics, actuarial science and finance, or data science. With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A.Stat from the Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending on whether or not they are required to take MATH 222 Calculus 3..

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses or their equivalents:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 141 Calculus 2./MATH 222 Calculus 3. are considered equivalent.

Required Courses (25-28 credits)

Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students

who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Note: Students with limited knowledge of computer programming should take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science.. UO students may take COMP 202 Foundations of Programming. as a Foundation Science course; new U1 students should take one of these courses as an elective in their first semester.

Note: Students who wish to take MATH 204 Principles of Statistics 2. as a complementary course are strongly advised to take MATH 203 Principles of Statistics 1. beforehand, in their first semester or their first year.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science. ¹	3
MATH 208	Introduction to Statistical Computing. ²	3
MATH 222	Calculus 3. ²	3
MATH 247	Honours Applied Linear Algebra. ³	3
MATH 251	Honours Algebra 2. ³	3
MATH 255	Honours Analysis 2.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 470	Honours Research Project.	3
MATH 533	Regression and Analysis of Variance. ⁴	4

¹ Students with limited programming experience should take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science..

² Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..

³ Students select either MATH 251 Honours Algebra 2. or MATH 247 Honours Applied Linear Algebra., but not both.

Complementary Courses (35 credits)

Advising notes:

Students wishing to pursue mathematical statistics in graduate school are advised to take MATH 587 Advanced Probability Theory 1. and recommended to take honours mathematics courses as complementary courses in Part II, in particular MATH 358 Honours

Advanced Calculus., MATH 454 Honours Analysis 3. (preferably prior to MATH 587 Advanced Probability Theory 1.), and MATH 455 Honours Analysis 4..

Students wishing to pursue applied statistics and/or careers as statisticians in industry or government are advised to take MATH 523 Generalized Linear Models., MATH 524 Nonparametric Statistics., MATH 547 Stochastic Processes., at least one of MATH 525 Sampling Theory and Applications. and MATH 558 Design of Experiments., and as many courses as possible from Part III of the list of Complementary Courses below. Students interested in obtaining the A-Stat accreditation from the Statistical Society of Canada should discuss their course selection with the academic adviser.

Students with interest in probability are advised to choose from the following as part of their Complementary Courses:

Expand allContract all

Course	Title	Credits
MATH 547	Stochastic Processes.	4
MATH 587	Advanced Probability Theory 1.	4
MATH 589	Advanced Probability Theory 2.	4

Students with interest in actuarial science are advised to choose from the following as part of their Complementary Courses:

Expand allContract all

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 430	Mathematical Finance.	3
MATH 524	Nonparametric Statistics.	4
MATH 545	Introduction to Time Series Analysis.	4
MATH 547	Stochastic Processes.	4

Students with interest in data science and machine learning are advised to choose from the following as part of their Complementary Courses:

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 251	Algorithms and Data Structures.	3
COMP 370	Introduction to Data Science.	3
COMP 424	Artificial Intelligence.	3
COMP 551	Applied Machine Learning.	4
MATH 308	Fundamentals of Statistical Learning.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 378	Nonlinear Optimization .	3
MATH 462	Machine Learning .	3
MATH 517	Honours Linear Optimization.	4
MATH 562	Theory of Machine Learning.	0-4
MATH 563	Honours Convex Optimization .	4

Part I

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

3 credits from:

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 and MATH 254.

Part II

6-11 credits in mathematics and computer science selected from:

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 252	Honours Algorithms and Data Structures.	3
MATH 248	Honours Vector Calculus.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 352	Problem Seminar.	1
MATH 358	Honours Advanced Calculus. ¹	3
MATH 376	Honours Nonlinear Dynamics.	3
MATH 387	Honours Numerical Analysis.	3
MATH 397	Honours Matrix Numerical Analysis.	3
MATH 398	Honours Euclidean Geometry .	3
MATH 454	Honours Analysis 3. ²	3
MATH 455	Honours Analysis 4.	3

Course	Title	Credits
MATH 458	Honours Differential Geometry.	3
MATH 466	Honours Complex Analysis.	3
MATH 475	Honours Partial Differential Equations.	3
MATH 478	Computational Methods in Applied Mathematics .	3
MATH 480	Honours Independent Study.	3
MATH 527D1	Statistical Data Science Practicum.	3
MATH 527D2	Statistical Data Science Practicum.	3

and any 500-level course offered by the Department of Mathematics and Statistics not listed in Part III below.

¹ Students can select either MATH 248 Honours Vector Calculus. or MATH 358 Honours Advanced Calculus., but not both.

² Students may obtain credit for both MATH 455 Honours Analysis 4. and MATH 587 Advanced Probability Theory 1..

Part III

18-23 credits in probability and statistics selected as follows:

15-23 credits selected from:

Expand all Contract all

Course	Title	Credits
MATH 204	Principles of Statistics 2. ¹	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 511	Analysis of Categorical Data.	4
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 545	Introduction to Time Series Analysis.	4
MATH 547	Stochastic Processes.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 587	Advanced Probability Theory 1.	4
MATH 589	Advanced Probability Theory 2.	4

¹ Students must take MATH 204 Principles of Statistics 2. before taking MATH 357 Honours Statistics. or MATH 533 Regression and Analysis of Variance.. Moreover, it is strongly advised to take MATH 203 Principles of Statistics 1. before taking MATH 204 Principles of Statistics 2..

0-3 credits from the following courses for which no Honours equivalent exists:

Expand all Contract all

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 378	Nonlinear Optimization .	3
MATH 427	Statistical Quality Control.	3

0-8 credits selected from:

Expand all Contract all

Course	Title	Credits
COMP 370	Introduction to Data Science.	3
COMP 424	Artificial Intelligence.	3
COMP 451	Fundamentals of Machine Learning.	3
COMP 551	Applied Machine Learning.	4
COMP 579	Reinforcement Learning.	4
COMP 588	Probabilistic Graphical Models.	4
MATH 430	Mathematical Finance.	3
MATH 462	Machine Learning .	3
MATH 510	Quantitative Risk Management.	4
MATH 562	Theory of Machine Learning.	4
MATH 594	Topics in Mathematics and Statistics . ¹	4
MATH 598	Topics in Probability & Statistics ¹	4

¹ Students may select either MATH 594 Topics in Mathematics and Statistics . or MATH 598 Topics in Probability & Statistics but not both.

Mathematics Major Concentration (B.A.) (46 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 46

Program Description

The B.A.; Major Concentration in Mathematics aims to provide an overview of the foundations of mathematics.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Guidelines for Course Selection

Students who received advanced standing or the CEGEP equivalent of the 100-level Math courses listed below are no longer required to take them. Whenever an exemption without credits is granted for a 200-level and above required Math course, the latter must be replaced with a complementary course chosen in consultation with a program advisor.

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions. If there is no major counterpart available for a course, please see a departmental advisor to discuss its inclusion into your program as a complementary course in the lower section.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 340, MATH 417, and take the Minor Concentration Computer Science.

Students interested in probability and statistics should consider either taking the Minor Concentration Statistics under option C or taking the major concentration in statistics.

Students interested in applied mathematics should consider the courses MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, MATH 417, MATH 423, and MATH 447.

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering

an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Required Courses (28 Credits)

[Expand all](#) [Contract all](#)

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 222	Calculus 3.	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 323	Probability.	3

Complementary Courses (18 Credits)

9-18 credits from:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MATH 249	Honours Complex Variables. ¹	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
MATH 316	Complex Variables. ¹	3
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 324	Statistics.	3
MATH 340	Discrete Mathematics.	3
MATH 346	Number Theory.	3
MATH 378	Nonlinear Optimization .	3
MATH 417	Linear Optimization.	3
MATH 451	Introduction to General Topology.	3

¹ Note: Either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. may be taken but not both.

0-3 credits from:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3

0-9 credits from:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 319	Partial Differential Equations .	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 348	Euclidean Geometry.	3
MATH 352	Problem Seminar.	1
MATH 410	Majors Project.	3
MATH 420	Independent Study.	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 463	Convex Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3

Mathematics Joint Honours Component (B.A.) (36 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

[Expand all](#) [Contract all](#)

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 222	Calculus 3.	3

Applied Mathematics Honours (B.Sc.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 63

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3

Complementary Courses (27 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹ It is strongly recommended that students take MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 248	Honours Vector Calculus.	3
MATH 358	Honours Advanced Calculus. ¹	3

¹ It is strongly recommended that students take MATH 358 Honours Advanced Calculus..

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

Expand allContract all

Course	Title	Credits
MATH 325	Honours Ordinary Differential Equations.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 454	Honours Analysis 3. ¹	3
MATH 455	Honours Analysis 4. ²	3
MATH 456	Honours Algebra 3. ³	3
MATH 457	Honours Algebra 4. ⁴	3
MATH 458	Honours Differential Geometry. ⁵	3
MATH 466	Honours Complex Analysis.	3

Program Description

The B.Sc.; Honours in Applied Mathematics provides an in-depth training, at the honours level, in “discrete” or “continuous” applied mathematics. It gives the foundations and necessary tools to explore some areas such as numerical analysis, continuous and discrete optimization, graph theory, discrete probability. The program also provides the background required to pursue interdisciplinary research at the interface between mathematics and other fields such as biology, physiology, and the biomedical sciences. This program may be completed with a minimum of 60 credits or a maximum of 63 credits.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222 Calculus 3..

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 222 Calculus 3. are considered equivalent.

Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Note: COMP 202 Foundations of Programming.—or an equivalent introduction to computer programming course—is a program prerequisite. UO students may take COMP 202 Foundations of Programming. as a Foundation Science course; new U1 students should take it as an elective in their first semester.

Students who transfer to Honours in Applied Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (36-39 credits)

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science. ¹	3
COMP 252	Honours Algorithms and Data Structures. ²	3
MATH 222	Calculus 3. ³	3
MATH 247	Honours Applied Linear Algebra. ³	3
MATH 251	Honours Algebra 2. ³	3
MATH 255	Honours Analysis 2.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 358	Honours Advanced Calculus.	3
MATH 376	Honours Nonlinear Dynamics.	3
MATH 470	Honours Research Project.	3
MATH 475	Honours Partial Differential Equations.	3

¹ Students with limited programming experience should take COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences. or COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science..

² Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on

³ entering the program are not required to take MATH 222 Calculus 3..

Students select either MATH 251 Honours Algebra 2. or MATH 247 Honours Applied Linear Algebra., but not both.

Honours Numerical Analysis., MATH 397 Honours Matrix Numerical Analysis., MATH 555 Fluid Dynamics., MATH 574 Dynamical Systems., MATH 578 Numerical Analysis 1., MATH 579 Numerical Differential Equations., MATH 580 Advanced Partial Differential Equations 1 ., MATH 581 Advanced Partial Differential Equations 2 .. Students interested in discrete applied mathematics are advised to choose from these as part of their Complementary Courses: COMP 362 Honours Algorithm Design., MATH 456 Honours Algebra 3., MATH 457 Honours Algebra 4., MATH 517 Honours Linear Optimization., MATH 547 Stochastic Processes., MATH 550 Combinatorics., MATH 552 Combinatorial Optimization..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1.. Advising Notes: Students interested in continuous applied mathematics are urged to choose these as part of their Complementary Courses: MATH 454 Honours Analysis 3., MATH 455 Honours Analysis 4. and MATH 478 Computational Methods in Applied Mathematics ., and are advised to choose additional courses from MATH 387 Honours Numerical Analysis., MATH 397 Honours Matrix Numerical Analysis., MATH 555 Fluid Dynamics., MATH 574 Dynamical Systems., MATH 578 Numerical Analysis 1., MATH 579 Numerical Differential Equations., MATH 580 Advanced Partial Differential Equations 1 ., MATH 581 Advanced Partial Differential Equations 2 .. Students interested in discrete applied mathematics are advised to choose from these as part of their Complementary Courses: COMP 362 Honours Algorithm Design., MATH 456 Honours Algebra 3., MATH 457 Honours Algebra 4., MATH 517 Honours Linear Optimization., MATH 547 Stochastic Processes., MATH 550 Combinatorics., MATH 552 Combinatorial Optimization..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 249	Honours Complex Variables.	3
MATH 466	Honours Complex Analysis.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 387	Honours Numerical Analysis.	3
MATH 397	Honours Matrix Numerical Analysis.	3

0-6 credits from the following courses for which no Honours equivalent exists.

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3

MATH 308	Fundamentals of Statistical Learning.	3
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 430	Mathematical Finance.	3
MATH 451	Introduction to General Topology.	3
MATH 462	Machine Learning.	3
MATH 478	Computational Methods in Applied Mathematics .	3

0-12 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 362	Honours Algorithm Design.	3
MATH 352	Problem Seminar.	1
MATH 365	Honours Groups, Tilings and Algorithms.	3
MATH 377	Honours Number Theory.	3
MATH 398	Honours Euclidean Geometry . ¹	3
MATH 454	Honours Analysis 3.	3
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3
MATH 457	Honours Algebra 4.	3
MATH 458	Honours Differential Geometry.	3
MATH 462	Machine Learning.	3
MATH 480	Honours Independent Study.	3
MATH 488	Honours Set Theory.	3

All MATH 500-level courses.

Other courses with the permission of the Department.

Mathematics Honours (B.Sc.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 63

Program Description

The B.Sc.; Honours in Mathematics provides an in-depth training, at the honours level, in mathematics. It gives the foundations and tools needed to explore diverse areas of mathematics such as analysis, number theory, geometry, geometric group theory, and probability. This program may be completed with a minimum of 60 credits or a maximum of 63 credits.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 141 Calculus 2./MATH 222 Calculus 3. are considered equivalent.

¹ Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 358	Honours Advanced Calculus. ²	3
MATH 454	Honours Analysis 3.	3
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3
MATH 457	Honours Algebra 4.	3
MATH 458	Honours Differential Geometry.	3
MATH 466	Honours Complex Analysis.	3
MATH 470	Honours Research Project.	3
MATH 475	Honours Partial Differential Equations.	3

¹ Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..

Required Courses (33-36 credits)

Course List

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 362	Honours Algorithm Design.	3
MATH 222	Calculus 3.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3
MATH 350	Honours Discrete Mathematics .	3

¹ Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..

Complementary Courses (39-42 credits)

0-3 credits selected from:

Course List

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 204	Computer Programming for Life Sciences. ¹	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

¹ Students who have sufficient knowledge of computer programming are not required to take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering ..

3 credits selected from:

Course List

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1.

3 credits selected from:

Course List

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Course MATH 245 Not Found ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1.

Course List

Course	Title	Credits
MATH 248	Honours Vector Calculus.	3
MATH 358	Honours Advanced Calculus.	3

9-18 credits selected from:

Course List

Course	Title	Credits
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 387	Honours Numerical Analysis.	3
MATH 454	Honours Analysis 3.	3
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3
MATH 457	Honours Algebra 4.	3

0-9 credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 396 Undergraduate Research Project.. ECSE 508 Multi-Agent Systems. may also be taken.

Philosophy Minor Concentration (B.A.) (18 credits)

Offered by: Philosophy (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description Complementary Courses (18 credits)

18 credits, of which no more than 9 credits may be at the 200 level and at least 3 credits must be at the 400 or 500 level, distributed as follows:

15 credits from Groups A, B, C, D, and E with one course from at least four of the five groups.

3 additional credits from Groups A, B, C, D, and E or from other Philosophy (PHIL) courses.

Group A

Expand allContract all

Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3

Course	Title	Credits	Course	Title	Credits
PHIL 334	Ethical Theory.	3	PHIL 360	17th Century Philosophy.	3
PHIL 343	Biomedical Ethics.	3	PHIL 361	18th Century Philosophy.	3
PHIL 348	Philosophy of Law 1.	3	PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 427	Topics in Critical Philosophy of Race.	3	PHIL 367	19th Century Philosophy.	3
PHIL 434	Metaethics.	3	PHIL 444	Early Modern Political Theory.	3
PHIL 442	Topics in Feminist Theory.	3	PHIL 445	19th Century Political Theory.	3

Group B

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3
PHIL 441	Philosophy of Science 2.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

Group C

Expand allContract all

Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

Group D

Expand allContract all

Course	Title	Credits
PHIL 344	Medieval and Renaissance Political Theory.	3
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 356	Early Medieval Philosophy.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

Group E

Expand allContract all

History and Philosophy of Science Minor Concentration (B.A.) (18 credits)

Offered by: Philosophy (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. For more information about the program and events, please visit <http://www.mcgill.ca/hpsc>.

Complementary Courses (18 credits)

18 credits with a maximum of 9 credits at the 200 level selected as follows:

Philosophy of Science

6-12 credits of courses focused on the Philosophy of Science with no more than 6 credits at the 200 level chosen from the following:

Communication Studies (COMS)

Expand allContract all

Course	Title	Credits
COMS 210	Introduction to Communication Studies.	3

History and Philosophy of Science (HPSC)

Expand allContract all

Course	Title	Credits
HPSC 300	Independent Studies: History and Philosophy of Science.	3

Philosophy (PHIL)

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3

PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 441	Philosophy of Science 2.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

Expand allContract all

Course	Title	Credits
ANTH 359	History of Archaeological Theory.	3

Biology (BIOL)

Expand allContract all

Course	Title	Credits
BIOL 210	Perspectives of Science.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 249	Health and the Healer in Western History.	3
HIST 319	The Scientific Revolution.	3
HIST 335	Science and Medicine in Canada.	3
HIST 350	Science and the Enlightenment.	3
HIST 356	Medicine in the Medieval West.	3
HIST 410	Topics in History of Science.	3
HIST 452AA	Topics in Pre-Modern Medicine.	3
HIST 457AA	Topics in Medical History.	3
HIST 558	Modern Medicine: Seminar.	3
HIST 559	Modern Medicine: Research.	3
HIST 567D1	Seminar: Medieval Medicine.	3
HIST 567D2	Seminar: Medieval Medicine.	3

History and Philosophy of Science (HPSC)

Expand allContract all

Course	Title	Credits
HPSC 300	Independent Studies: History and Philosophy of Science.	3
HPSC 500	Interdisciplinary Seminar: History & Philosophy of Science.	3

Mathematics (MATH)

Expand allContract all

Course	Title	Credits
MATH 338	History and Philosophy of Mathematics.	3

Psychology (PSYC)

Expand allContract all

Course	Title	Credits
PSYC 403	Modern Psychology in Historical Perspective.	3

Philosophy Major Concentration (B.A.) (36 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3

Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 Introduction to Philosophy 1. or PHIL 201 Introduction to Philosophy 2. may be included in the program.

Group A

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3

PHIL 441	Philosophy of Science 2.	3	Expand allContract all
PHIL 470	Topics in Contemporary Analytic Philosophy.	3	Course Title Credits

Group B

3 credits from:

Expand allContract all		
Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

Group C

6 credits (two courses) from Group C OR Group D:

Expand allContract all			
Course	Title	Credits	
PHIL 344	Medieval and Renaissance Political Theory.	3	
PHIL 345	Greek Political Theory.	3	
PHIL 350	History and Philosophy of Ancient Science.	3	
PHIL 353	The Presocratic Philosophers.	3	
PHIL 354	Plato.	3	
PHIL 355	Aristotle.	3	
PHIL 356	Early Medieval Philosophy.	3	
PHIL 452	Later Greek Philosophy.	3	
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3	
PHIL 454	Ancient Moral Theory.	3	

Group D

6 credits (two courses) from Group C OR Group D:

Expand allContract all			
Course	Title	Credits	
PHIL 360	17th Century Philosophy.	3	
PHIL 361	18th Century Philosophy.	3	
PHIL 366	18th and Early 19th Century German Philosophy.	3	
PHIL 367	19th Century Philosophy.	3	
PHIL 444	Early Modern Political Theory.	3	
PHIL 445	19th Century Political Theory.	3	

Group E

3 credits from:

Expand allContract all			
Course	Title	Credits	
PHIL 230	Introduction to Moral Philosophy 1.	3	
PHIL 237	Contemporary Moral Issues.	3	
PHIL 240	Political Philosophy 1.	3	
PHIL 242	Introduction to Feminist Theory.	3	

Group F

3 credits from:

Expand allContract all			
Course	Title	Credits	
PHIL 334	Ethical Theory.	3	
PHIL 343	Biomedical Ethics.	3	
PHIL 348	Philosophy of Law 1.	3	
PHIL 427	Topics in Critical Philosophy of Race.	3	
PHIL 434	Metaethics.	3	
PHIL 442	Topics in Feminist Theory.	3	

Philosophy Honours (B.A.) (60 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (15 credits)

Expand allContract all			
Course	Title	Credits	
PHIL 210	Introduction to Deductive Logic 1.	3	
PHIL 301	Philosophical Fundamentals.	3	
PHIL 334	Ethical Theory.	3	
PHIL 499	Tutorial 06.	6	

Complementary Courses (45 credits)

45 credits distributed as follows:

3 credits from:

Expand allContract all			
Course	Title	Credits	
PHIL 306	Philosophy of Mind.	3	
PHIL 310	Intermediate Logic.	3	
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3	
PHIL 415	Philosophy of Language.	3	
PHIL 419	Epistemology.	3	

PHIL 421	Metaphysics.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3

6 credits from:

Expand allContract all

Course	Title	Credits
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

6 credits from:

Expand allContract all

Course	Title	Credits
PHIL 360	17th Century Philosophy.	3
PHIL 361	18th Century Philosophy.	3
PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 367	19th Century Philosophy.	3
PHIL 444	Early Modern Political Theory.	3
PHIL 445	19th Century Political Theory.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

24 additional credits in Philosophy (PHIL) with 12 credits at the 400 and 500 levels (not including the Honours tutorial PHIL 499 Tutorial 06.) at least 3 credits of which must be at the 500 level.

A maximum of 15 credits from 200-level courses may be used toward the Honours program. Only one of PHIL 200 Introduction to Philosophy 1. or PHIL 201 Introduction to Philosophy 2. may be counted toward the program.

Philosophy Joint Honours Component (B.A.) (36 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 301	Philosophical Fundamentals.	3
PHIL 334	Ethical Theory.	3

Complementary Courses (27 credits)

27 credits distributed as follows:

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3

Group A

6 credits from Group A or Group B.

Expand allContract all

Course	Title	Credits
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

Group B

6 credits from Group A or Group B.

Expand allContract all

Course	Title	Credits
PHIL 360	17th Century Philosophy.	3
PHIL 361	18th Century Philosophy.	3
PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 367	19th Century Philosophy.	3
PHIL 444	Early Modern Political Theory.	3
PHIL 445	19th Century Political Theory.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 Tutorial 05. below.

Expand allContract all

Course	Title	Credits
PHIL 498	Tutorial 05.	3

Political Science Minor Concentration (B.A.) (18 credits)

Offered by: Political Science (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

The Minor Concentration in Political Science is an 18-credit program in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Complementary Courses (18 credits)

18 credits selected as follows:

6 or 9 POLI credits at the 200 level. Each of these POLI courses must be in a different group, the relevant groups being: Canadian Politics, International Relations, Comparative Politics, Political Theory, and Methods.

The rest of the 18 credits (9 or 12 credits) must come from POLI courses at the 300 or 400 level in any group(s). Note, however, that to take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field.

No more than 6 POLI transfer credits can be used toward the program requirements.

POLI 490 Independent Reading and Research 1. and POLI 499 Honours Essay. are not open to students enrolled in the Minor Concentration.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3

POLI 412	Canadian Voting/Public Opinion.	3	POLI 473	Democracy and the Market.	3
POLI 417	Health Care in Canada.	3	POLI 476	Religion and Politics.	3
POLI 424	Media and Politics.	3			
POLI 426	Partis politiques et comportements électoraux au Québec.	3			
POLI 427	Selected Topics: Canadian Politics.	3			
POLI 436	Aboriginal Rights in the Canadian Constitution.	3			

Comparative Politics

Expand allContract all

Course	Title	Credits	Course	Title	Credits
POLI 212	Introduction to Comparative Politics – Europe/North America.	3	POLI 243	International Politics of Economic Relations.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	POLI 244	International Politics: State Behaviour.	3
POLI 316	Black Lives Matter and American Democracy.	3	POLI 341	Foreign Policy: The Middle East.	3
POLI 318	Comparative Local Government.	3	POLI 342	Canadian Foreign Policy.	3
POLI 319	Politics of Latin America.	3	POLI 345	International Organizations.	3
POLI 322	Political Change in South Asia.	3	POLI 346	American Foreign Policy.	3
POLI 324	Comparative Politics of Africa.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 325	U.S. Politics.	3	POLI 349	Foreign Policy: Asia.	3
POLI 328	Comparing European Democracies.	3	POLI 350	Global Environmental Politics.	3
POLI 329	Russian Politics.	3	POLI 351	The Causes of Major Wars.	3
POLI 330	Law and Courts in Europe.	3	POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 331	Politics in East Central Europe.	3	POLI 353	Politics of the International Refugee Regime.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 354	Approaches to International Political Economy.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 355	The Politics of International Law.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 358	Political Economy of International Organizations.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 359	Topics in International Politics 1.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 360	Security: War and Peace.	3
POLI 369	Politics of Southeast Asia.	3	POLI 362	Political Theory and International Relations.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 441	International Political Economy: Trade.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 420	Memory, Place, and Power.	3	POLI 443	Intervention in World Politics.	3
POLI 421	The Politics of Misinformation.	3	POLI 444	Topics in International Politics 2.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 423	Politics of Ethno-Nationalism.	3	POLI 447	Political Economy of Multinationals.	3
POLI 424	Media and Politics.	3	POLI 448	Gender and International Relations.	3
POLI 430	Politics of Art.	3	POLI 449	Diplomacy in Practice.	3
POLI 431	Nations and Nationalism.	3	POLI 450	Peacebuilding.	3
POLI 432	Advanced Topics in Comparative Politics 2.	3	POLI 451	The European Union.	3
POLI 435	Identity and Inequality.	3	POLI 452	Conflict Simulation.	3
POLI 450	Peacebuilding.	3			
POLI 451	The European Union.	3			
POLI 452	Conflict Simulation.	3			

International Relations

Expand allContract all

Course	Title	Credits
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 341	Foreign Policy: The Middle East.	3
POLI 342	Canadian Foreign Policy.	3
POLI 345	International Organizations.	3
POLI 346	American Foreign Policy.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 349	Foreign Policy: Asia.	3
POLI 350	Global Environmental Politics.	3
POLI 351	The Causes of Major Wars.	3
POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 353	Politics of the International Refugee Regime.	3
POLI 354	Approaches to International Political Economy.	3
POLI 355	The Politics of International Law.	3
POLI 358	Political Economy of International Organizations.	3
POLI 359	Topics in International Politics 1.	3
POLI 360	Security: War and Peace.	3
POLI 362	Political Theory and International Relations.	3
POLI 441	International Political Economy: Trade.	3
POLI 442	International Relations of Ethnic Conflict.	3
POLI 443	Intervention in World Politics.	3
POLI 444	Topics in International Politics 2.	3
POLI 445	International Political Economy: Monetary Relations.	3
POLI 447	Political Economy of Multinationals.	3
POLI 448	Gender and International Relations.	3
POLI 449	Diplomacy in Practice.	3
POLI 450	Peacebuilding.	3
POLI 451	The European Union.	3
POLI 452	Conflict Simulation.	3
POLI 231	Introduction to Political Theory.	3
POLI 333	Western Political Theory 1.	3
POLI 334	Western Political Theory 2.	3
POLI 362	Political Theory and International Relations.	3
POLI 363	Contemporary Political Theory.	3
POLI 364	Radical Political Thought.	3
POLI 365	Democratic Theory.	3

POLI 366	Topics in Political Theory 1.	3	Political Theory, and Methods. All other 24 credits must come from 300- or 400-level POLI courses.
POLI 367	Liberal Political Theory.	3	
POLI 368	Political Theory and Indigeneity.	3	3 credits must be taken at the 400 level at McGill rather than as transfer credits. This requirement cannot be fulfilled with POLI 599 Internship: Political Science..
POLI 433	History of Political/Social Theory 3.	3	
POLI 434	History of Political/Social Theory 4.	3	
POLI 458	(De-) Coloniality.	3	To take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field. Students are therefore expected to take all their 200-level courses in their first two years.
POLI 459	Topics in Political Theory 2.	3	
POLI 470	Philosophy, Economy and Society.	3	No more than 12 POLI transfer credits can be used toward the program requirements. POLI Methods courses at McGill do not have equivalencies from courses taken elsewhere.

Methods

Expand allContract all

Course	Title	Credits	Course lists for each group of political science courses are provided below.
POLI 210	Political Science Research Methods.	3	
POLI 311	Introduction to Quantitative Political Science.	3	
POLI 312	Intermediate Quantitative Political Science.	3	
POLI 313	Introduction to Qualitative Methods in Political Science.	3	

Political Science Major Concentration (B.A.) (36 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Political Science is a 36-credit program in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics, International Relations, and Political Theory) with the following specifications.

Only POLI courses at the 200-level or above (or their equivalent courses from other universities can be counted toward this program.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits.

12 of the 36 credits must be taken at the 200 level. No more than 3 credits at the 200 level may be in any given group - the groups being Canadian Politics, Comparative Politics, International Relations,

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 317	The Politics of Race in Canada.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3
POLI 412	Canadian Voting/Public Opinion.	3
POLI 417	Health Care in Canada.	3
POLI 424	Media and Politics.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
POLI 427	Selected Topics: Canadian Politics.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3

Comparative Politics

Expand allContract all

Course	Title	Credits
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 316	Black Lives Matter and American Democracy.	3
POLI 318	Comparative Local Government.	3
POLI 319	Politics of Latin America.	3

POLI 322	Political Change in South Asia.	3	POLI 354	Approaches to International Political Economy.	3
POLI 324	Comparative Politics of Africa.	3	POLI 355	The Politics of International Law.	3
POLI 325	U.S. Politics.	3	POLI 358	Political Economy of International Organizations.	3
POLI 328	Comparing European Democracies.	3	POLI 359	Topics in International Politics 1.	3
POLI 329	Russian Politics.	3	POLI 360	Security: War and Peace.	3
POLI 330	Law and Courts in Europe.	3	POLI 362	Political Theory and International Relations.	3
POLI 331	Politics in East Central Europe.	3	POLI 441	International Political Economy: Trade.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 443	Intervention in World Politics.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 444	Topics in International Politics 2.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 446	International Law and Politics of Human Rights.	3
POLI 369	Politics of Southeast Asia.	3	POLI 447	Political Economy of Multinationals.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 448	Gender and International Relations.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 449	Diplomacy in Practice.	3
POLI 420	Memory, Place, and Power.	3	POLI 450	Peacebuilding.	3
POLI 421	The Politics of Misinformation.	3	POLI 451	The European Union.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3	POLI 452	Conflict Simulation.	3

Political Theory

Expand allContract all

Course	Title	Credits
POLI 231	Introduction to Political Theory.	3
POLI 333	Western Political Theory 1.	3
POLI 334	Western Political Theory 2.	3
POLI 362	Political Theory and International Relations.	3
POLI 363	Contemporary Political Theory.	3
POLI 364	Radical Political Thought.	3
POLI 365	Democratic Theory.	3
POLI 366	Topics in Political Theory 1.	3
POLI 367	Liberal Political Theory.	3
POLI 368	Political Theory and Indigeneity.	3
POLI 433	History of Political/Social Theory 3.	3
POLI 434	History of Political/Social Theory 4.	3
POLI 458	(De-) Coloniality.	3
POLI 459	Topics in Political Theory 2.	3
POLI 470	Philosophy, Economy and Society.	3

International Relations

Expand allContract all

Course	Title	Credits
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 341	Foreign Policy: The Middle East.	3
POLI 342	Canadian Foreign Policy.	3
POLI 345	International Organizations.	3
POLI 346	American Foreign Policy.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 349	Foreign Policy: Asia.	3
POLI 350	Global Environmental Politics.	3
POLI 351	The Causes of Major Wars.	3
POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 353	Politics of the International Refugee Regime.	3
Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3
POLI 313	Introduction to Qualitative Methods in Political Science.	3

Special courses

Expand allContract all

Course	Title	Credits
POLI 490	Independent Reading and Research 1.	3
POLI 599	Internship: Political Science.	3

No more than one-half (24 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics, International Relations, Political Theory). However, if the field is Comparative Politics the maximum is 27 credits.

To take an upper-level POLI course (i.e. courses at the 300, 400 or 500 level), students must have taken a 200-level POLI course in the same field. Students are therefore expected to take all their 200-level courses in their first two years.

No more than 15 Political Science transfer credits can be used toward the program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3
POLI 412	Canadian Voting/Public Opinion.	3
POLI 417	Health Care in Canada.	3
POLI 424	Media and Politics.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
POLI 427	Selected Topics: Canadian Politics.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3
POLI 521	Seminar: Canadian Politics and Government.	3

Comparative Politics

Expand allContract all

Course	Title	Credits
POLI 212	Introduction to Comparative Politics - Europe/ North America.	3
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 316	Black Lives Matter and American Democracy.	3
POLI 318	Comparative Local Government.	3
POLI 319	Politics of Latin America.	3
POLI 322	Political Change in South Asia.	3
POLI 324	Comparative Politics of Africa.	3

Political Science Honours (B.A.) (48 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 48

Program Description

The Honours program in Political Science focuses on four fields in Political Science: comparative politics, international relations, Canadian politics, and political theory, including empirical methods that complement the four substantive fields of Political Science. Students may enter the Honours program at the start of U2. To enter, remain and graduate in Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Complementary Courses (45 credits)

45 credits of complementary courses selected with the following specifications:

12 credits must be taken at the 200 level – 3 credits must be taken in each of the four fields: Political Theory, Comparative Politics, International Relations, Canadian Politics.). The remaining 33 credits must come from POLI courses at the 300 level and above.

6 credits in POLI Methods courses must be taken at the 300 or 400 level. The 9-credit methods requirement (including POLI 210 Political Science Research Methods.) can only be fulfilled with courses taken at McGill. Credits transferred from other universities are not accepted for this purpose.

At least 12 credits of political science courses must be at the 400 level and above, including one mandatory 500-level Honours Seminar which must be taken at McGill.

POLI 325	U.S. Politics.	3	POLI 355	The Politics of International Law.	3
POLI 328	Comparing European Democracies.	3	POLI 358	Political Economy of International Organizations.	3
POLI 329	Russian Politics.	3	POLI 359	Topics in International Politics 1.	3
POLI 330	Law and Courts in Europe.	3	POLI 360	Security: War and Peace.	3
POLI 331	Politics in East Central Europe.	3	POLI 362	Political Theory and International Relations.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 441	International Political Economy: Trade.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 443	Intervention in World Politics.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 444	Topics in International Politics 2.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 369	Politics of Southeast Asia.	3	POLI 446	International Law and Politics of Human Rights.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 447	Political Economy of Multinationals.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 448	Gender and International Relations.	3
POLI 421	The Politics of Misinformation.	3	POLI 449	Diplomacy in Practice.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3	POLI 450	Peacebuilding.	3
POLI 423	Politics of Ethno-Nationalism.	3	POLI 451	The European Union.	3
POLI 424	Media and Politics.	3	POLI 452	Conflict Simulation.	3
POLI 430	Politics of Art.	3	POLI 575	Seminar: International Politics.	3
POLI 431	Nations and Nationalism.	3			
POLI 432	Advanced Topics in Comparative Politics 2.	3			
POLI 435	Identity and Inequality.	3			
POLI 450	Peacebuilding.	3			
POLI 451	The European Union.	3			
POLI 452	Conflict Simulation.	3			
POLI 473	Democracy and the Market.	3			
POLI 476	Religion and Politics.	3			
POLI 522	Seminar: Comparative Politics 1.	3			
POLI 524	Seminar: Comparative Politics 2.	3			

International Relations

Expand allContract all

Course	Title	Credits			Credits
POLI 243	International Politics of Economic Relations.	3	POLI 368	Political Theory and Indigeneity.	3
POLI 244	International Politics: State Behaviour.	3	POLI 433	History of Political/Social Theory 3.	3
POLI 341	Foreign Policy: The Middle East.	3	POLI 434	History of Political/Social Theory 4.	3
POLI 342	Canadian Foreign Policy.	3	POLI 458	(De-) Coloniality.	3
POLI 345	International Organizations.	3	POLI 459	Topics in Political Theory 2.	3
POLI 346	American Foreign Policy.	3	POLI 470	Philosophy, Economy and Society.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	POLI 561	Seminar: Political Theory.	3
POLI 349	Foreign Policy: Asia.	3			
POLI 350	Global Environmental Politics.	3			
POLI 351	The Causes of Major Wars.	3			
POLI 352	International Policy/Foreign Policy: Africa.	3			
POLI 353	Politics of the International Refugee Regime.	3			
POLI 354	Approaches to International Political Economy.	3			

Methods

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3

POLI 313	Introduction to Qualitative Methods in Political Science.	3	McGill. Credits transferred from other universities are not accepted for this purpose.
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Special Courses

Expand allContract all

Course	Title	Credits	
POLI 490	Independent Reading and Research 1.	3	9 credits must be taken at the 200 level with no more than 3 credits in a given substantive field (i.e. Political Theory, Comparative Politics, International Relations, Canadian Politics). The remaining 24 credits must come from POLI courses at the 300 level and above.
POLI 499	Honours Essay.	3	At least 9 credits must be taken at the 400 level and above, including one mandatory 500-level Honours Seminar which must be taken at McGill.
POLI 599	Internship: Political Science.	3	No more than one-half (18 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics, International Relations, Political Theory). However, if the field is Comparative Politics the maximum is 21 credits. Refer to the lists below for course choices in each field.

Political Science Joint Honours Component (B.A.) (36 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours program in Political Science is a 36-credit program at the Honours level in two Arts disciplines. This program focuses on Political Science in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Students may enter the Joint Honours program in U1. To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits	
POLI 210	Political Science Research Methods.	3	

Complementary Courses (33 credits)

33 credits of complementary POLI courses selected with the following specifications:

3 credits must be taken in POLI Methods courses at the 300 or 400 level. The 6-credit methods requirement (including POLI 210 Political Science Research Methods.) can only be fulfilled with courses taken at

No more than one-half (18 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics, International Relations, Political Theory). However, if the field is Comparative Politics the maximum is 21 credits. Refer to the lists below for course choices in each field.

To take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field. Students are therefore expected to take all their 200-level courses in their first two years.

No more than 12 POLI transfer credits can be used toward the program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 317	The Politics of Race in Canada.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3
POLI 412	Canadian Voting/Public Opinion.	3
POLI 417	Health Care in Canada.	3
POLI 424	Media and Politics.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
POLI 427	Selected Topics: Canadian Politics.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3
POLI 521	Seminar: Canadian Politics and Government.	3

Comparative Politics

Expand allContract all

Course	Title	Credits	Course	Title	Credits
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	POLI 243	International Politics of Economic Relations.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	POLI 244	International Politics: State Behaviour.	3
POLI 316	Black Lives Matter and American Democracy.	3	POLI 341	Foreign Policy: The Middle East.	3
POLI 318	Comparative Local Government.	3	POLI 342	Canadian Foreign Policy.	3
POLI 319	Politics of Latin America.	3	POLI 345	International Organizations.	3
POLI 322	Political Change in South Asia.	3	POLI 346	American Foreign Policy.	3
POLI 324	Comparative Politics of Africa.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 325	U.S. Politics.	3	POLI 349	Foreign Policy: Asia.	3
POLI 328	Comparing European Democracies.	3	POLI 351	The Causes of Major Wars.	3
POLI 329	Russian Politics.	3	POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 330	Law and Courts in Europe.	3	POLI 353	Politics of the International Refugee Regime.	3
POLI 331	Politics in East Central Europe.	3	POLI 354	Approaches to International Political Economy.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 359	Topics in International Politics 1.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 360	Security: War and Peace.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 362	Political Theory and International Relations.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 441	International Political Economy: Trade.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 369	Politics of Southeast Asia.	3	POLI 443	Intervention in World Politics.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 444	Topics in International Politics 2.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 420	Memory, Place, and Power.	3	POLI 446	International Law and Politics of Human Rights.	3
POLI 421	The Politics of Misinformation.	3	POLI 447	Political Economy of Multinationals.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3	POLI 448	Gender and International Relations.	3
POLI 423	Politics of Ethno-Nationalism.	3	POLI 449	Diplomacy in Practice.	3
POLI 424	Media and Politics.	3	POLI 450	Peacebuilding.	3
POLI 430	Politics of Art.	3	POLI 451	The European Union.	3
POLI 431	Nations and Nationalism.	3	POLI 452	Conflict Simulation.	3
POLI 432	Advanced Topics in Comparative Politics 2.	3	POLI 575	Seminar: International Politics.	3
POLI 435	Identity and Inequality.	3			
POLI 450	Peacebuilding.	3			
POLI 451	The European Union.	3			
POLI 452	Conflict Simulation.	3			
POLI 473	Democracy and the Market.	3			
POLI 476	Religion and Politics.	3			
POLI 522	Seminar: Comparative Politics 1.	3			
POLI 524	Seminar: Comparative Politics 2.	3			

International Relations

Expand allContract all

Course	Title	Credits
POLI 231	Introduction to Political Theory.	3
POLI 333	Western Political Theory 1.	3
POLI 334	Western Political Theory 2.	3
POLI 362	Political Theory and International Relations.	3
POLI 363	Contemporary Political Theory.	3
POLI 364	Radical Political Thought.	3
POLI 365	Democratic Theory.	3
POLI 366	Topics in Political Theory 1.	3
POLI 367	Liberal Political Theory.	3
POLI 368	Political Theory and Indigeneity.	3
POLI 433	History of Political/Social Theory 3.	3
POLI 434	History of Political/Social Theory 4.	3
POLI 458	(De-) Coloniality.	3

Course	Title	Credits
POLI 459	Topics in Political Theory 2.	3
POLI 470	Philosophy, Economy and Society.	3
POLI 561	Seminar: Political Theory.	3

Methods

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3
POLI 313	Introduction to Qualitative Methods in Political Science.	3

Special Courses

Expand allContract all

Course	Title	Credits
POLI 490	Independent Reading and Research 1.	3
POLI 499	Honours Essay.	3
POLI 599	Internship: Political Science.	3

Faculty Program in Population and Global Health (B.A.) (54 credits)

Offered by: Department of Global and Public Health (Faculty of Medicine and Health Sciences)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The B.A.; Faculty Program in Population and Global Health is an interdisciplinary program with a competency-based approach that focuses on values, skills and approaches foundational to improving health equity and population health both locally and globally. The key issues in population, global and Indigenous health are complemented by ethical principles, data literacy, research methods and knowledge translation. Areas of specialization include the following streams: Environment and Health; Culture, Society and Health; Diet, Lifestyle and The Life Course; Systems, Policy and Government; and Innovation and Leadership. There is an emphasis on teambased, problem-focused and communityengaged experiential learning. Blended learning will be used for some courses, which includes synchronous and asynchronous activities.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
GPHL 200	Foundations in Population and Global Health.	3
GPHL 201	Population and Global Health Ethics.	3
GPHL 300	Data Literacy	3
GPHL 301	Introduction to Research Methods	3
GPHL 302	Knowledge Translation	3
GPHL 303	Community Engaged Learning	3
GPHL 400	Critical Perspectives in Global Health	3
GPHL 401	Experiential Learning	12

Complementary Courses (21 credits)

21 credits are chosen from one of the following five streams, among which a maximum of 9 credits from the 200 level, and a minimum of 12 credits at the 300 level or above should be selected. Other courses may be used to fulfil each stream with permission of the program advisor:

Stream 1: Environment and Health*

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
ENVR 401	Environmental Research.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 503	Advanced Topics in Health Geography.	3
PARA 410	Environment and Infection.	3
PARA 515	Water, Health and Sanitation.	3
SOCI 331	Population and Environment.	3

*Note that some courses have prerequisites and/or limited seating for Population and Global Health students.

Stream 2: Culture, Society and Health

Expand allContract all

Course	Title	Credits
ANSC 555	The Use and Welfare of Animals.	3
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 206	Environment and Culture.	3
ANTH 209	Anthropology of Religion.	3
ANTH 227	Medical Anthropology.	3

ANTH 302	New Horizons in Medical Anthropology.	3	*Note that some courses have prerequisites and/or limited seating for Population and Global Health students.
ANTH 314	Psychological Anthropology 01.	3	
ANTH 322	Social Change in Modern Africa.	3	
ANTH 325	Anthropology of the Self.	3	
ANTH 407	Anthropology of the Body.	3	

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 310	Introduction to Behavioural Economics.	3
EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 330	Physical Activity and Public Health.	3
EDKP 395	Exercise Physiology.	3
EDKP 405	Sport in Society.	3
EDKP 448	Exercise and Health Psychology.	3
ENVB 305	Population and Community Ecology.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 337	Nutrition Through Life.	3
NUTR 341	Global Food Security.	3
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 505	Public Health Nutrition.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
PARA 410	Environment and Infection.	3
PARA 515	Water, Health and Sanitation.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 405	Families over the Life Course.	3
SOCI 588	Biosociology/Biodemography.	3
HSEL 308	Issues in Women's Health.	3
HSEL 309	Women's Reproductive Health.	3
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3
ISLA 310	Women in Islam.	0-3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
SOCI 234	Population and Society.	3
SOCI 270	Sociology of Gender.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 331	Population and Environment.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 385	Sociology of Human Sexuality.	3
SOCI 405	Families over the Life Course.	3
SOCI 502	Sociology of Childbearing	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3

Stream 3: Diet, Lifestyle and the Life Course

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 310	Introduction to Behavioural Economics.	3
EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 330	Physical Activity and Public Health.	3
EDKP 395	Exercise Physiology.	3
EDKP 405	Sport in Society.	3
EDKP 448	Exercise and Health Psychology.	3
ENVB 305	Population and Community Ecology.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
NUTR 307	Metabolism and Human Nutrition.	3
NUTR 337	Nutrition Through Life.	3
NUTR 341	Global Food Security.	3
NUTR 450	Research Methods: Human Nutrition.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 505	Public Health Nutrition.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
PARA 410	Environment and Infection.	3
PARA 515	Water, Health and Sanitation.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 405	Families over the Life Course.	3
SOCI 588	Biosociology/Biodemography.	3
HSEL 308	Issues in Women's Health.	3
HSEL 309	Women's Reproductive Health.	3
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3
ISLA 310	Women in Islam.	0-3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
SOCI 234	Population and Society.	3
SOCI 270	Sociology of Gender.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 331	Population and Environment.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 385	Sociology of Human Sexuality.	3
SOCI 405	Families over the Life Course.	3
SOCI 502	Sociology of Childbearing	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3

Stream 4: Systems, Policy and Government

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 223	Political Economy of Trade Policy.	3
ENVR 201	Society, Environment and Sustainability.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 310	Development and Livelihoods.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
HIST 201	Modern African History.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 211	American History to 1865.	3

HIST 215	Modern Europe.	3	ECON 230D2	Microeconomic Theory. ¹	3
HIST 218	Modern East Asian History.	3	ECON 310	Introduction to Behavioural Economics.	3
HIST 221	United States since 1865.	3	ECON 447	Economics of Information and Uncertainty.	3
HIST 223	Indigenous Peoples and Empires.	3	MGCR 211	Introduction to Financial Accounting.	3
HIST 326	History of the Soviet Union.	3	MGCR 352	Principles of Marketing.	3
HIST 338	Twentieth-Century China.	3	MGCR 382	International Business.	3
HIST 360	Latin America since 1825.	3	MGCR 423	Strategic Management.	3
HIST 361	Topics in Canadian Regional History.	3	MGPO 362	Fundamentals of Entrepreneurship.	3
HIST 363	Canada 1870-1914.	3	MGPO 364	Entrepreneurship in Practice.	3
POLI 212	Introduction to Comparative Politics – Europe/North America.	3	MGPO 383	International Business Policy.	3
POLI 221	Government of Canada.	3	MGPO 435	The Origins of Capitalism.	3
POLI 222	Political Process and Behaviour in Canada.	3	MGPO 438	Social Entrepreneurship and Innovation.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	MGPO 440	Strategies for Sustainability.	3
POLI 243	International Politics of Economic Relations.	3	MGPO 445	Industry Analysis and Competitive Strategy.	3
POLI 244	International Politics: State Behaviour.	3	MGPO 460	Managing Innovation.	3
POLI 319	Politics of Latin America.	3	MGPO 469	Managing Globalization.	3
POLI 322	Political Change in South Asia.	3	MGPO 475	Strategies for Developing Countries.	3
POLI 324	Comparative Politics of Africa.	3	MSUS 402	Systems Thinking and Sustainability.	3
POLI 340	Comparative Politics of the Middle East.	3			
POLI 341	Foreign Policy: The Middle East.	3			
POLI 345	International Organizations.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			
POLI 349	Foreign Policy: Asia.	3			
POLI 359	Topics in International Politics 1.	3			
POLI 369	Politics of Southeast Asia.	3			
POLI 372	Indigenous Peoples and the Canadian State.	3			
POLI 422	Advanced Topics in Comparative Politics 1.	3			
POLI 423	Politics of Ethno-Nationalism.	3			
POLI 435	Identity and Inequality.	3			
POLI 441	International Political Economy: Trade.	3			
POLI 445	International Political Economy: Monetary Relations.	3			
POLI 450	Peacebuilding.	3			
SOCI 254	Development and Underdevelopment.	3			
SOCI 307	Globalization.	3			
SOCI 515	Medicine and Society.	3			
SOCI 526	Indigenous Women's Health and Healthcare .	3			

*Note that some courses have prerequisites and/or limited seating for Population and Global Health students.

Stream 5: Innovation and Leadership

Expand allContract all

Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications. ¹	3
ECON 230D1	Microeconomic Theory.	3

¹ If chosen, students must take both ECON 230D1 Microeconomic Theory and ECON 230D2 Microeconomic Theory.

*Note that some courses have prerequisites and/or limited seating for Population and Global Health students.

Behavioural Science Minor Concentration (B.A.) (18 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

Psychology is the scientific study of the mind and behaviour. The B.A. Minor Concentration Behavioural Science (18 credits) is available only to Arts Majors in Psychology. This minor is a specialization option that allows Arts Majors in Psychology to complete additional credits in Psychology, allowing for a more specialized degree than the Major Concentration alone (see Program Requirements below).

Program Requirements

Restricted to students registered in the Bachelor of Arts, Major Concentration Psychology.

For B.A. Psychology Major Concentration students only; this program provides students with the space to take the additional courses they may need for applying to graduate school in psychology and for

completing the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs).

Note that this counts as a second minor concentration and is open only to students registered in the Bachelor of Arts, Major Concentration Psychology. A first minor concentration must also be completed in a discipline other than Psychology. Please note that a Minor Concentration in Educational Psychology does not fulfill this requirement as it is considered to be within the Psychology discipline.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

3 credits in Psychology at the 400 or 500 level

9 credits at the 300 level or above from one or more of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

Expand allContract all

Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3
PSYC 301	Animal Learning and Theory.	3
PSYC 302	Pain.	3
PSYC 306	Research Methods in Psychology.	3
PSYC 310	Intelligence.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 329	Introduction to Auditory Cognition.	3
PSYC 340	Psychology of Language.	3
PSYC 341	The Psychology of Bilingualism.	3
PSYC 342	Hormones and Behaviour.	3
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3
PSYC 353	Research Methods and Laboratory in Human Perception.	3
PSYC 403	Modern Psychology in Historical Perspective.	3
PSYC 406	Psychological Tests.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 413	Cognitive Development.	3
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PSYC 427	Sensorimotor Neuroscience.	3

PSYC 433	Cognitive Science.	3
PSYC 439	Correlational Techniques.	3
PSYC 443	Affective Neuroscience.	3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 502	Psychoneuroendocrinology.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 513	Human Decision-Making.	3
PSYC 514	Neurobiology of Memory.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYC 529	Music Cognition.	3
PSYC 531	Structural Equation Models.	3
PSYC 537	Advanced Seminar in Psychology of Language.	3
PSYC 538	Categorization, Communication and Consciousness.	3
PSYC 541	Multilevel Modelling.	3
PSYC 545	Topics in Language Acquisition.	3
PSYC 560	Machine Learning Tools in Psychology. ¹	3
PSYC 562	Measurement of Psychological Processes.	3

¹

1. Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken Foundation linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
2. Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology ..

List B - (Social, Health and Developmental Psychology)

Expand allContract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 328	Health Psychology.	3
PSYC 331	Inter-Group Relations.	3
PSYC 332	Introduction to Personality.	3
PSYC 333	Personality and Social Psychology.	3
PSYC 337	Introduction to Psychopathology.	3
PSYC 339	Introduction to Applied Psychology.	3
PSYC 351	Research Methods and Laboratory in Social Psychology.	3
PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 409	Positive Psychology.	3
PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3
PSYC 412	Child Development: Psychopathology .	3

PSYC 414	Social Development.	3	minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.
PSYC 436	Human Sexuality and Its Problems.	3	
PSYC 471	Human Motivation.	3	
PSYC 473	Social Cognition and the Self.	3	
PSYC 474	Interpersonal Relationships.	3	
PSYC 475	Neuroscience of Social Psychology.	3	
PSYC 483	Seminar in Experimental Psychopathology.	3	
PSYC 491D1	Advanced Study: Behavioural Disorders.	3	
PSYC 491D2	Advanced Study: Behavioural Disorders.	3	
PSYC 507	Emotions, Stress, and Illness.	3	
PSYC 509	Diverse Clinical Populations.	3	
PSYC 512	Advanced Personality Seminar.	3	
PSYC 528	Vulnerability to Depression and Anxiety.	3	
PSYC 530	Applied Topics in Deafness.	3	
PSYC 535	Advanced Topics in Social Psychology.	3	
PSYC 539	Advanced Topics in Social Psychology 2.	3	

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

Expand allContract all

Course	Title	Credits
PSYC 385	Independent Research Project 1.	3
PSYC 450D1	Research Project and Seminar.	4.5
PSYC 450D2	Research Project and Seminar.	4.5
PSYC 484D1	Independent Research Project 2.	3
PSYC 484D2	Independent Research Project 2.	3
PSYC 485	Independent Research Project 3.	3
PSYC 492	Special Topics Seminar 1.	3
PSYC 493	Special Topics Seminar 2.	3
PSYC 499	Reading Project.	1

Psychology Minor Concentration (B.A.) (18 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

Psychology is the scientific study of the mind and behaviour. The B.A. Minor Concentration Psychology (18 credits) is intended to compliment the student's primary field of study by providing a focused introduction to specialized topics in psychology.

Program Requirements

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This

Program Prerequisites (0-3 credits)

Students planning to enter the Minor Concentration Psychology program should have completed an introductory course in general psychology in CEGEP. Otherwise, they can complete it in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

McGill Foundation students are recommended to complete the following course in their UO year:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

Complementary Courses (18 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

12 credits in Psychology at the 300 level or above.

Psychology Major Concentration (B.A.) (36 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Psychology is the scientific study of the mind and behavior. The B.A. Major Concentration in Psychology (36 credits) provides students with a basic overview, covering the core areas of psychological science as well as more advanced courses in specialized content areas. Students also have the option to complete a research course(s) (see Program Requirements for details). Note: this program may not provide sufficient undergraduate background preparation for certain graduate programs. Students who wish to go on to graduate training in psychology, and those who wish to complete the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs), are advised to take the supplementary Minor Concentration Behavioural

Science. This specialization option will give students the space to take the additional courses they may need for such applications.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-6 credits)

Students planning to enter the Major Concentration Psychology program should have completed an introductory course in general psychology and biology in CEGEP. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology in their first year.

Students who have completed Human Biology or General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 115 Essential Biology, or BIOL 111 Principles: Organismal Biology, or BIOL 112 Cell and Molecular Biology during their first year.

McGill Foundation students are recommended to complete the following courses in their U0 year:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

And

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
BIOL 115	Essential Biology.	3

Required Courses (18 credits)

U1

Expand allContract all

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

U1 or U2

Expand allContract all

Course	Title	Credits
PSYC 305	Statistics for Experimental Design.	3

¹ Students who wish to apply to the Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design, in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms). For additional information about applying to Honours, please refer to the Honours program description.

Advising note for PSYC 204 Introduction to Psychological Statistics.: CEGEP students are exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed, with a minimum grade of 75%, the following two courses:

1. Quantitative Methods and either
2. Advanced Quantitative Methods or Statistics for Social Science.

CEGEP students are also exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

Bachelor of Arts students exempt from PSYC 204 Introduction to Psychological Statistics. replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCL).

Complementary Courses (18 credits)

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

6 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

Expand allContract all

Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3
PSYC 301	Animal Learning and Theory.	3
PSYC 302	Pain.	3
PSYC 306	Research Methods in Psychology.	3
PSYC 310	Intelligence.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 329	Introduction to Auditory Cognition.	3
PSYC 340	Psychology of Language.	3

PSYC 341	The Psychology of Bilingualism.	3	PSYC 328	Health Psychology.	3
PSYC 342	Hormones and Behaviour.	3	PSYC 331	Inter-Group Relations.	3
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3	PSYC 332	Introduction to Personality.	3
PSYC 353	Research Methods and Laboratory in Human Perception.	3	PSYC 333	Personality and Social Psychology.	3
PSYC 403	Modern Psychology in Historical Perspective.	3	PSYC 337	Introduction to Psychopathology.	3
PSYC 406	Psychological Tests.	3	PSYC 339	Introduction to Applied Psychology.	3
PSYC 410	Special Topics in Neuropsychology.	3	PSYC 351	Research Methods and Laboratory in Social Psychology.	3
PSYC 413	Cognitive Development.	3	PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3	PSYC 409	Positive Psychology.	3
PSYC 427	Sensorimotor Neuroscience.	3	PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3
PSYC 433	Cognitive Science.	3	PSYC 412	Child Development: Psychopathology .	3
PSYC 439	Correlational Techniques.	3	PSYC 414	Social Development.	3
PSYC 443	Affective Neuroscience.	0-3	PSYC 436	Human Sexuality and Its Problems.	3
PSYC 444	Sleep Mechanisms and Behaviour.	3	PSYC 471	Human Motivation.	3
PSYC 470	Memory and Brain.	3	PSYC 473	Social Cognition and the Self.	3
PSYC 502	Psychoneuroendocrinology.	3	PSYC 474	Interpersonal Relationships.	3
PSYC 506	Cognitive Neuroscience of Attention.	3	PSYC 475	Neuroscience of Social Psychology.	3
PSYC 513	Human Decision-Making.	3	PSYC 483	Seminar in Experimental Psychopathology.	3
PSYC 514	Neurobiology of Memory.	3	PSYC 491D1	Advanced Study: Behavioural Disorders.	3
PSYC 522	Neurochemistry and Behaviour.	3	PSYC 491D2	Advanced Study: Behavioural Disorders.	3
PSYC 526	Advances in Visual Perception.	3	PSYC 507	Emotions, Stress, and Illness.	3
PSYC 529	Music Cognition.	3	PSYC 509	Diverse Clinical Populations.	3
PSYC 531	Structural Equation Models.	3	PSYC 512	Advanced Personality Seminar.	3
PSYC 537	Advanced Seminar in Psychology of Language.	3	PSYC 528	Vulnerability to Depression and Anxiety.	3
PSYC 538	Categorization, Communication and Consciousness.	3	PSYC 530	Applied Topics in Deafness.	3
PSYC 541	Multilevel Modelling.	3	PSYC 535	Advanced Topics in Social Psychology.	3
PSYC 545	Topics in Language Acquisition.	3	PSYC 539	Advanced Topics in Social Psychology 2.	3
PSYC 560	Machine Learning Tools in Psychology . ¹	3			
PSYC 562	Measurement of Psychological Processes.	3			

¹

- Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken Foundation linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning.
- Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology ..

List B - (Social, Health and Developmental Psychology)

Expand allContract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 309	Positive Psychology: Science of Well-Being.	3

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

Expand allContract all

Course	Title	Credits
PSYC 385	Independent Research Project 1.	3
PSYC 450D1	Research Project and Seminar.	4.5
PSYC 450D2	Research Project and Seminar.	4.5
PSYC 484D1	Independent Research Project 2.	3
PSYC 484D2	Independent Research Project 2.	3
PSYC 485	Independent Research Project 3.	3
PSYC 492	Special Topics Seminar 1.	3
PSYC 493	Special Topics Seminar 2.	3
PSYC 499	Reading Project.	1

Psychology Honours (B.A.) (60 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

Psychology is the scientific study of the mind and behavior. The B.A. Honours in Psychology (60 credits) is a specialized program that provides students with an in-depth overview of psychological science, covering the core areas as well as more advanced courses. Students are required to take a 2-term research course and seminar; students also have the option to complete additional research course(s) and/or gain additional training in arts related disciplines (see Program Requirements for details). This program emphasizes practice in the research techniques and statistics used in graduate school and professionally later on. It also provides students with the space to take the additional courses they may need for applying to graduate school in psychology and for completing the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs). Students must apply to the Honours program; admission is selective.

Program Requirements

Typically, students apply to the Honours program at the end of U1; students may apply at the end of U2, although there are often fewer seats for students applying in U2 (also the Honours program requirements must be completed within the remaining terms). To be eligible to apply to the BA Honours in Psychology, students must have completed a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). All applicants must have taken PSYC 204 Introduction to Psychological Statistics., PSYC 211 Introductory Behavioural Neuroscience., PSYC 212 Perception., PSYC 213 Cognition., PSYC 215 Social Psychology. and PSYC 305 Statistics for Experimental Design.. Exceptional performance in these courses is a primary criterion for acceptance into the Honours program. In addition to performance in these psychology courses, a minimum cumulative grade point average (CGPA) of 3.50 is required to apply. However, since enrolment is limited, the typical CGPA cut-off is ~3.75, although this varies from year to year depending on the applicant pool. Once in the Honours program, students must obtain a GPA of 3.00 in the U2 year to continue in the Honours program for U3. Students are also encouraged to continue to complete a minimum of 27 graded credits in their U2 and U3 academic years. This is also the minimum number of credits required to be eligible for fellowships and awards.

The application is available on the Psychology Department website at: <https://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the website. Candidates will be informed of the Department's decision via email before classes begin in September.

Awarding of the Honours degree will depend on both CGPA and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "Honours" is awarded

to students with a minimum CGPA of 3.00 and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology..

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-6 credits)

Students planning to enter the BA Honours Psychology program, should have completed an introductory course in general psychology, biology and statistics at the CEGEP level. Otherwise, they can complete them in their first year of study at McGill University (see below).

Students who have completed Human Biology or General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 115 Essential Biology. or BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

McGill Foundation students are recommended to complete the following courses in their U0 year:

Expand allContract all		Credits
Course	Title	
PSYC 100	Introduction to Psychology.	3

3 credits from:

Expand allContract all		Credits
Course	Title	
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
BIOL 115	Essential Biology.	3

Required Courses (33 credits)

U1

Expand allContract all		Credits
Course	Title	
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

¹ Advising note for PSYC 204 Introduction to Psychological Statistics.: CEGEP students are exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed, with a minimum grade of 75%, the following two courses: 1) Quantitative Methods and either 2a) Advanced Quantitative Methods or 2b) Statistics for Social Science. CEGEP students are also exempt from PSYC 204

Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

Bachelor of Arts students will replace this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

U1 or U2

Expand allContract all

Course	Title	Credits
PSYC 305	Statistics for Experimental Design. ¹	3

¹ Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design. in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). For additional information about applying to Honours, please refer to the Honours program description.

U2

Expand allContract all

Course	Title	Credits
PSYC 306	Research Methods in Psychology.	3
PSYC 380D1	Honours Research Project Seminar.	4.5
PSYC 380D2	Honours Research Project Seminar.	4.5

U2 or U3

Expand allContract all

Course	Title	Credits
PSYC 439	Correlational Techniques.	3

Complementary Courses (27 credits)

3-9 credits must be completed with the following course(s):

Any 500-level Psychology course

Expand allContract all

Course	Title	Credits
PSYC 486	Independent Honours Research 1.	3
PSYC 487	Independent Honours Research 2.	3
PSYC 488D1	Independent Honours Research 3.	3
PSYC 488D2	Independent Honours Research 3.	3
PSYC 492	Special Topics Seminar 1.	3

If the 9 credits are not fulfilled with the above courses, the remaining 3-6 credits are to be completed with any 400-level Psychology course.

Note: Students entering Honours in U3 who previously took PSYC 385 Independent Research Project 1., PSYC 484D1 Independent Research Project 2./PSYC 484D2 Independent Research Project 2. and/or PSYC 485 Independent Research Project 3. may use these courses to fulfill the Honours Complementary course requirements.

18 credits of Honours courses are to be completed with the following courses:

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from the following:

Expand allContract all

Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3
PSYC 301	Animal Learning and Theory.	3
PSYC 302	Pain.	3
PSYC 306	Research Methods in Psychology.	3
PSYC 310	Intelligence.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 329	Introduction to Auditory Cognition.	3
PSYC 340	Psychology of Language.	3
PSYC 341	The Psychology of Bilingualism.	3
PSYC 342	Hormones and Behaviour.	3
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3
PSYC 353	Research Methods and Laboratory in Human Perception.	3
PSYC 403	Modern Psychology in Historical Perspective.	3
PSYC 406	Psychological Tests.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 413	Cognitive Development.	3
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PSYC 427	Sensorimotor Neuroscience.	3
PSYC 433	Cognitive Science.	3
PSYC 439	Correlational Techniques.	3
PSYC 443	Affective Neuroscience.	0-3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 502	Psychoneuroendocrinology.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 513	Human Decision-Making.	3
PSYC 514	Neurobiology of Memory.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYC 529	Music Cognition.	3
PSYC 531	Structural Equation Models.	3
PSYC 537	Advanced Seminar in Psychology of Language.	3

PSYC 538	Categorization, Communication and Consciousness.	3	PSYC 528	Vulnerability to Depression and Anxiety.	3
PSYC 541	Multilevel Modelling.	3	PSYC 530	Applied Topics in Deafness.	3
PSYC 545	Topics in Language Acquisition.	3	PSYC 535	Advanced Topics in Social Psychology.	3
PSYC 560	Machine Learning Tools in Psychology . ¹	3	PSYC 539	Advanced Topics in Social Psychology 2.	3
PSYC 562	Measurement of Psychological Processes.	3			

1

1. Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken Foundation linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
2. Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology ..

List B - (Social, Health and Developmental Psychology)

6 credits in Psychology from the following:

Expand allContract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 309	Positive Psychology: Science of Well-Being.	3
PSYC 328	Health Psychology.	3
PSYC 331	Inter-Group Relations.	3
PSYC 332	Introduction to Personality.	3
PSYC 333	Personality and Social Psychology.	3
PSYC 337	Introduction to Psychopathology.	3
PSYC 339	Introduction to Applied Psychology.	3
PSYC 351	Research Methods and Laboratory in Social Psychology.	3
PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 409	Positive Psychology.	3
PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3
PSYC 412	Child Development: Psychopathology .	3
PSYC 414	Social Development.	3
PSYC 436	Human Sexuality and Its Problems.	3
PSYC 471	Human Motivation.	3
PSYC 473	Social Cognition and the Self.	3
PSYC 474	Interpersonal Relationships.	3
PSYC 475	Neuroscience of Social Psychology.	3
PSYC 483	Seminar in Experimental Psychopathology.	3
PSYC 491D1	Advanced Study: Behavioural Disorders.	3
PSYC 491D2	Advanced Study: Behavioural Disorders.	3
PSYC 507	Emotions, Stress, and Illness.	3
PSYC 509	Diverse Clinical Populations.	3
PSYC 512	Advanced Personality Seminar.	3

Psychology Joint Honours Component (B.A.) (36 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Psychology is the scientific study of the mind and behavior. The B.A.; Joint Honours Psychology Component (36 credits) provides students with an overview of psychological science, covering the core areas as well as select advanced courses. Students are required to take a 2-term research course and seminar; students also have the option to complete an additional research course (see Program Requirements for details). This program emphasizes practice in the research techniques and statistics used in graduate school and professionally later on. However, the Joint Honours Program is not as comprehensive as the B.A. or B.Sc. Honours Program, and does not give students the space to take the additional courses they may need for certain graduate programs in psychology or to complete the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs). Students must apply to the Joint Honours program; admission is selective.

Program Requirements

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection.

Admission to the B.A. Joint Honours Component Psychology is highly selective. Typically, students apply to the B.A Joint Honours program at the end of U1; students may apply at the end of U2, although there are often fewer seats for students applying in U2 (also the B.A. Joint Honours program requirements must be completed within the remaining terms). To be eligible to apply to the B.A. Joint Honours in Psychology, students must have completed a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). All applicants must have taken PSYC 204 Introduction to Psychological Statistics., PSYC 211 Introductory Behavioural Neuroscience., PSYC 212 Perception., PSYC 213 Cognition., PSYC 215 Social Psychology. and PSYC 305 Statistics for Experimental Design.. Exceptional performance in these courses is a primary criterion for acceptance into the B.A. Joint Honours program. In addition to performance in these psychology courses, a minimum cumulative grade point average (CGPA) of 3.50 is required to apply. However,

since enrolment is limited, the typical CGPA cut-off is ~3.75, although this varies from year to year depending on the applicant pool. Once in the B.A. Joint Honours program, students must obtain a GPA of 3.00 in the U2 year to continue in the B.A. Joint Honours program for U3. Students are also encouraged to continue to complete a minimum of 27 graded credits in their U2 and U3 academic years. This is also the minimum number of credits required to be eligible for fellowships and awards.

The application is available on the Psychology Department website at: <https://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the website. Candidates will be informed of the Department's decision via email before classes begin in September.

Awarding of the B.A. Joint Honours program will depend on both CGPA and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "Joint Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology..

In addition to the requirements of the B.A. Joint Honours Component Psychology, students must also complete all requirements of their other Joint Honours component.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites (0-6 credits)

Students planning to enter the B.A. Joint Honours Psychology program, should have completed an introductory course in general psychology, biology and statistics at the CEGEP level. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

Students who have completed Human Biology or General 1or 2 in CEGEP would have the recommended biology background.

Student who have not completed ones of those courses are advised to complete BIOL 115 Essential Biology. or BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

McGill Freshman students are recommended to complete the following courses in their U0 year:

Expand allContract all		
Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

3 credits from:

Expand allContract all		
Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
BIOL 115	Essential Biology.	3

Required Courses (33 credits)

U1

Expand allContract all		
Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics. ¹	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

¹ Advising note for PSYC 204 Introduction to Psychological Statistics.: CEGEP students are exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed, with a minimum grade of 75%, the following two courses: 1) Quantitative Methods and either 2a) Advanced Quantitative Methods or 2b) Statistics for Social Science. CEGEP students are also exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%. Bachelor of Arts students exempt from PSYC 204 Introduction to Psychological Statistics. replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

U1 or U2

Expand allContract all		
Course	Title	Credits
PSYC 305	Statistics for Experimental Design.	3

¹ Note: Students who wish to apply to the Joint Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design. in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). For additional information about applying to Joint Honours, please refer to the Joint Honours program description.

U2

Expand allContract all		
Course	Title	Credits
PSYC 306	Research Methods in Psychology.	3
PSYC 380D1	Honours Research Project Seminar.	4.5
PSYC 380D2	Honours Research Project Seminar.	4.5

U2 or U3

Expand allContract all

Course	Title	Credits
PSYC 439	Correlational Techniques.	3

Complementary Course (3 credits)

3 credits in Psychology at the 400 or 500 level.

Religious Studies Minor Concentration (B.A.) (18 credits)**Offered by:** Religious Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18**Program Description**

The B.A. Minor Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3

Complementary Courses (15 credits)

6 credits of Introductory Courses at the 200 level.

Expand allContract all

Course	Title	Credits	
ANTH 209	Anthropology of Religion.	3	RELG 204 Judaism, Christianity and Islam. 3
CATH 200	Introduction to Catholicism.	3	RELG 205 Death and Dying. 3
CATH 220	Selected Topics in Catholic Studies.	3	RELG 210 Jesus of Nazareth. 3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	RELG 211 Theology through Fiction. 3
HIST 219	Jewish History: 1000 - 2000.	3	RELG 252 Hinduism and Buddhism. 3
ISLA 200	Islamic Civilization.	3	RELG 253 Religions of East Asia. 3
ISLA 210	Muslim Societies.	3	RELG 254 Introduction to Yoga Traditions. 3
JWST 201	Jewish Law.	3	RELG 270 Religious Ethics and the Environment. 3
JWST 211	Jewish Studies 1: Biblical Period.	3	RELG 271 Religion and Sexuality. 3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	RELG 288 Introduction to Sikhism. 3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	
JWST 245	Jewish Life in the Islamic World.	3	
JWST 254	The Jewish Holy Days.	3	
JWST 261	History of Jewish Philosophy and Thought.	3	
RELG 201	Religions of the Ancient Near East.	3	
RELG 202	Religion of Ancient Israel.	3	
RELG 203	Bible and Western Culture.	3	
			9 credits of Advanced Courses at the 300 level or higher.
			Expand allContract all
Course	Title	Credits	
CATH 310	Catholic Intellectual Traditions.	3	
CATH 320	Catholicism and Modernity.	3	
CATH 325	Mystery and the Imagination.	3	
CATH 330	Catholicism in a Global Context.	3	
CATH 335	Confessions of Saint Augustine.	3	
CATH 340	Catholicism and Public Policy.	3	
CATH 460	Catholic Studies Seminar.	3	
CATH 370AA	Indigenous Religiosity and Spirituality.	3	
CATH 375AA	Topics in Catholic Theology	3	
HIST 427	The Hasidic Movement.	3	
ISLA 310	Women in Islam.	3	
ISLA 390	Islamic Reform and Radicalism: Middle East	3	
ISLA 421	Islamic Culture - Indian Subcontinent.	3	
ISLA 530	Advanced Sufism	3	
JWST 334	Jews and Muslims: A Modern History.	3	
JWST 382	Jews, Judaism and Social Justice.	3	
RELG 300	Second Temple Judaism.	3	
RELG 302	Literature of Ancient Israel 1.	3	
RELG 303	Literature of Ancient Israel 2.	3	
RELG 307	Bible, Quran and Interpretations.	3	
RELG 309	World Religions and Cultures They Create..	3	
RELG 310	Canadian Church History.	3	
RELG 311	Formation of the New Testament.	3	
RELG 312	The Gospels.	3	
RELG 315AA	Indigenous Religiosity and Spirituality	3	
RELG 316	New Religious Movements.	3	
RELG 317	Special Topics in Religion 2.	3	
RELG 318	Special Topics in Religion 3.	3	
RELG 319	Special Topics in Religion 4.	3	
RELG 322	Church and Empire to 1300 .	3	
RELG 323	Church and State since 1300.	3	
RELG 325	Varieties Religious Experience in Christianity.	3	

RELG 326	Christians in the Roman World.	3	RELG 470	Theological Ethics.	3
RELG 331	Religion and Globalization.	3	RELG 479	Christianity in Global Perspective.	3
RELG 332	Conversations Across World Religions.	3	RELG 502	Greco-Roman Judaism.	3
RELG 333	Principles of Theology.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 334	Theology of History.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 336	Contemporary Theological Issues.	3	RELG 547	Special Topics in Hinduism.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 338	Women and the Christian Tradition.	3	RELG 551	Special Topics in Buddhism.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 552	Advaita Vedanta.	3
RELG 344	Mahayana Buddhism.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 348	Classical Hinduism.	3	RELG 558	Indian Tantric Traditions.	3
RELG 350	Bhakti Hinduism.	3	RELG 560	Buddhist Poetry.	3
RELG 352	Japanese Religions: History and Thought.	3	RELG 570	Research in Interfaith Studies.	3
RELG 354	Chinese Religions.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 358	Religion and Cinema in India.	3	RELG 572	Religion and Global Politics.	3
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
ISLA 375	Sufi Women	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 379	Eastern Orthodox Christianity.	3			
RELG 380	Religion, Philosophy, Modernity.	3			
RELG 382	Contemporary Theory of Religion .	3			
RELG 384	Religion and Public Policy.	3			
RELG 398	North American Christianity.	3			
RELG 399	Christian Spirituality.	3			
RELG 407	The Writings.	3			
RELG 408	The Prophets.	3			
RELG 419	Religious Heritage and Tourism.	3			
RELG 422	Medieval Religious Texts.	3			
RELG 423	Reformation Thought.	3			
RELG 434	Advanced Theology.	3			
RELG 440	Global Islam.	3			
RELG 444	Indian Ocean Religious Networks.	3			
RELG 445	Modern Buddhism.	3			
RELG 449	The Religion of the Samurai.	3			
RELG 450	The Way of the Kami.	3			
RELG 451	Zen Buddhism: Poetry and Art.	3			
RELG 453	Vajrayana Buddhism.	3			
RELG 455	Religion, Performance and Agency in South Asia	3			

Religious Studies Major Concentration (B.A.) (36 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A. Major Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (6 credits)

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3
RELG 456	Theories of Religion.	3

Complementary Courses (30 credits)

3-9 credits of Introductory Courses at the 200 level.

Course	Title	Credits
ANTH 209	Anthropology of Religion.	3
CATH 200	Introduction to Catholicism.	3
CATH 220	Selected Topics in Catholic Studies.	3

HIST 207	Jewish History: 400 B.C.E. to 1000.	3	RELG 257D1	Introductory Sanskrit.	3
HIST 219	Jewish History: 1000 - 2000.	3	RELG 257D2	Introductory Sanskrit.	3
ISLA 200	Islamic Civilization.	3	RELG 264	Introductory Tibetan 1.	3
ISLA 210	Muslim Societies.	3	RELG 265	Introductory Tibetan 2.	3
JWST 201	Jewish Law.	3	RELG 357D1	Sanskrit 2.	3
JWST 211	Jewish Studies 1: Biblical Period.	3	RELG 357D2	Sanskrit 2.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	RELG 364	Intermediate Tibetan 1.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	RELG 365	Intermediate Tibetan 2.	3
JWST 245	Jewish Life in the Islamic World.	3	RELG 381	Advanced New Testament Greek.	3
JWST 254	The Jewish Holy Days.	3	RELG 390D1	Elementary Biblical Hebrew.	3
JWST 261	History of Jewish Philosophy and Thought.	3	RELG 390D2	Elementary Biblical Hebrew.	3
RELG 201	Religions of the Ancient Near East.	3	RELG 457D1	Advanced Sanskrit.	3
RELG 202	Religion of Ancient Israel.	3	RELG 457D2	Advanced Sanskrit.	3
RELG 203	Bible and Western Culture.	3	RELG 464	Advanced Tibetan 1.	3
RELG 204	Judaism, Christianity and Islam.	3	RELG 465	Advanced Tibetan 2.	3
RELG 205	Death and Dying.	3	RELG 491	Biblical Hebrew Narratives.	3
RELG 210	Jesus of Nazareth.	3	RELG 492	Biblical Hebrew Poetry.	3
RELG 211	Theology through Fiction.	3	15-21 credits of Advanced Courses at the 300 level or higher.		
RELG 212	Introduction to African Religions and Cultures	3	Expand allContract all		
RELG 252	Hinduism and Buddhism.	3	Course	Title	Credits
RELG 253	Religions of East Asia.	3	CATH 310	Catholic Intellectual Traditions.	3
RELG 254	Introduction to Yoga Traditions.	3	CATH 320	Catholicism and Modernity.	3
RELG 257D1	Introductory Sanskrit.	3	CATH 325	Mystery and the Imagination.	3
RELG 257D2	Introductory Sanskrit.	3	CATH 330	Catholicism in a Global Context.	3
RELG 270	Religious Ethics and the Environment.	3	CATH 335	Confessions of Saint Augustine.	3
RELG 271	Religion and Sexuality.	3	CATH 340	Catholicism and Public Policy.	3
RELG 279	New Testament Greek 1.	3	CATH 460	Catholic Studies Seminar.	3
RELG 288	Introduction to Sikhism.	3	CATH 370AA	Indigenous Religiosity and Spirituality.	3
0-12 credits of Classical language courses.			CATH 375AA	Topics in Catholic Theology	3
Expand allContract all			HIST 427	The Hasidic Movement.	3
Course	Title	Credits			
CLAS 210	Introductory Latin 1.	3	ISLA 310	Women in Islam.	3
CLAS 212	Introductory Latin 2.	3	ISLA 375	Sufi Women	3
CLAS 215	Intensive Introductory Latin.	6	ISLA 390	Islamic Reform and Radicalism: Middle East	3
CLAS 220	Introductory Ancient Greek 1.	3	ISLA 421	Islamic Culture - Indian Subcontinent.	3
CLAS 222	Introductory Ancient Greek 2.	3	ISLA 530	Advanced Sufism	3
CLAS 225	Intensive Introductory Ancient Greek.	6	JWST 334	Jews and Muslims: A Modern History.	3
CLAS 310	Intermediate Latin 1.	3	JWST 382	Jews, Judaism and Social Justice.	3
CLAS 312	Intermediate Latin 2.	3	RELG 300	Second Temple Judaism.	3
CLAS 315	Intermediate Latin 2: Selections.	3	RELG 302	Literature of Ancient Israel 1.	3
CLAS 320	Intermediate Ancient Greek 1.	3	RELG 303	Literature of Ancient Israel 2.	3
CLAS 322	Intermediate Ancient Greek 2.	3	RELG 307	Bible, Quran and Interpretations.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3	RELG 309	World Religions and Cultures They Create..	3
ISLA 322D1	Lower Intermediate Arabic.	3	RELG 310	Canadian Church History.	3
ISLA 322D2	Lower Intermediate Arabic.	3	RELG 311	Formation of the New Testament.	3
			RELG 312	The Gospels.	3

RELG 315AA	Indigenous Religiosity and Spirituality	3	RELG 440	Global Islam.	3
RELG 316	New Religious Movements.	3	RELG 444	Indian Ocean Religious Networks.	3
RELG 317	Special Topics in Religion 2.	3	RELG 445	Modern Buddhism.	3
RELG 318	Special Topics in Religion 3.	3	RELG 449	The Religion of the Samurai.	3
RELG 319	Special Topics in Religion 4.	3	RELG 450	The Way of the Kami.	3
RELG 322	Church and Empire to 1300 .	3	RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 323	Church and State since 1300.	3	RELG 453	Vajrayana Buddhism.	3
RELG 325	Varieties Religious Experience in Christianity.	3	RELG 455	Religion, Performance and Agency in South Asia	3
RELG 326	Christians in the Roman World.	3	RELG 459	Bhagavadgita and Mahabharata .	3
RELG 331	Religion and Globalization.	3	RELG 470	Theological Ethics.	3
RELG 332	Conversations Across World Religions.	3	RELG 479	Christianity in Global Perspective.	3
RELG 333	Principles of Theology.	3	RELG 502	Greco-Roman Judaism.	3
RELG 334	Theology of History.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 336	Contemporary Theological Issues.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 547	Special Topics in Hinduism.	3
RELG 338	Women and the Christian Tradition.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 551	Special Topics in Buddhism.	3
RELG 344	Mahayana Buddhism.	3	RELG 552	Advaita Vedanta.	3
RELG 348	Classical Hinduism.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 350	Bhakti Hinduism.	3	RELG 558	Indian Tantric Traditions.	3
RELG 352	Japanese Religions: History and Thought.	3	RELG 560	Buddhist Poetry.	3
RELG 353	Gandhi: His Life and Thought.	3	RELG 570	Research in Interfaith Studies.	3
RELG 354	Chinese Religions.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 358	Religion and Cinema in India.	3	RELG 572	Religion and Global Politics.	3
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 379	Eastern Orthodox Christianity.	3			
RELG 380	Religion, Philosophy, Modernity.	3			
RELG 382	Contemporary Theory of Religion .	3			
RELG 398	North American Christianity.	3			
RELG 399	Christian Spirituality.	3			
RELG 407	The Writings.	3			
RELG 408	The Prophets.	3			
RELG 410	Paul and His Legacy.	3			
RELG 419	Religious Heritage and Tourism.	3			
RELG 422	Medieval Religious Texts.	3			
RELG 423	Reformation Thought.	3			
RELG 434	Advanced Theology.	3			

Religious Studies Honours (B.A.) (60 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 60

Program Description

The B.A.; Honours in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions. A 6-credit Honours thesis related to the student's area of focus must be submitted. The Honours thesis topic must be approved by a Religious Studies adviser. A supervisor will be appointed to guide the student.

Students must maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (12 credits)

Expand all Contract all

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3
RELG 456	Theories of Religion.	3
RELG 490	Honours Thesis.	6

Complementary Courses (48 credits)

3-9 credits from Introductory Courses at the 200 level.

Expand all Contract all

Course	Title	Credits
ANTH 209	Anthropology of Religion.	3
CATH 200	Introduction to Catholicism.	3
CATH 220	Selected Topics in Catholic Studies.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3
JWST 201	Jewish Law.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 254	The Jewish Holy Days.	3
JWST 261	History of Jewish Philosophy and Thought.	3
RELG 201	Religions of the Ancient Near East.	3
RELG 202	Religion of Ancient Israel.	3
RELG 203	Bible and Western Culture.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 205	Death and Dying.	3
RELG 210	Jesus of Nazareth.	3
RELG 211	Theology through Fiction.	3
RELG 252	Hinduism and Buddhism.	3
RELG 253	Religions of East Asia.	3
RELG 254	Introduction to Yoga Traditions.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 271	Religion and Sexuality.	3
RELG 288	Introduction to Sikhism.	3

0-12 credits of Classical language courses.

Expand all Contract all

Course	Title	Credits
CLAS 210	Introductory Latin 1.	3
CLAS 212	Introductory Latin 2.	3
CLAS 215	Intensive Introductory Latin.	6
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
CLAS 225	Intensive Introductory Ancient Greek.	6
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
RELG 257D1	Introductory Sanskrit.	3
RELG 257D2	Introductory Sanskrit.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 357D1	Sanskrit 2.	3
RELG 357D2	Sanskrit 2.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 381	Advanced New Testament Greek.	3
RELG 390D1	Elementary Biblical Hebrew.	3
RELG 390D2	Elementary Biblical Hebrew.	3
RELG 457D1	Advanced Sanskrit.	3
RELG 457D2	Advanced Sanskrit.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3
RELG 491	Biblical Hebrew Narratives.	3
RELG 492	Biblical Hebrew Poetry.	3

33-39 credits of Advanced Courses at the 300 level or higher.

Course	Title	Credits
CATH 310	Catholic Intellectual Traditions.	3
CATH 320	Catholicism and Modernity.	3
CATH 325	Mystery and the Imagination.	3
CATH 330	Catholicism in a Global Context.	3
CATH 335	Confessions of Saint Augustine.	3
CATH 340	Catholicism and Public Policy.	3
CATH 370AA	Indigenous Religiosity and Spirituality.	3
CATH 375AA	Topics in Catholic Theology	3
CATH 460	Catholic Studies Seminar.	3
HIST 427	The Hasidic Movement.	3
ISLA 310	Women in Islam.	0-3
ISLA 375	Sufi Women	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3

ISLA 530	Advanced Sufism	3	RELG 382	Contemporary Theory of Religion .	3
JWST 314	Denominations in North American Judaism.	3	RELG 384	Religion and Public Policy.	3
JWST 334	Jews and Muslims: A Modern History.	3	RELG 398	North American Christianity.	3
JWST 382	Jews, Judaism and Social Justice.	3	RELG 399	Christian Spirituality.	3
RELG 300	Second Temple Judaism.	3	RELG 407	The Writings.	3
RELG 302	Literature of Ancient Israel 1.	3	RELG 408	The Prophets.	3
RELG 303	Literature of Ancient Israel 2.	3	RELG 410	Paul and His Legacy.	3
RELG 307	Bible, Quran and Interpretations.	3	RELG 419	Religious Heritage and Tourism.	3
RELG 310	Canadian Church History.	3	RELG 422	Medieval Religious Texts.	3
RELG 311	Formation of the New Testament.	3	RELG 423	Reformation Thought.	3
RELG 312	The Gospels.	3	RELG 434	Advanced Theology.	3
RELG 315AA	Indigenous Religiosity and Spirituality	3	RELG 440	Global Islam.	3
RELG 316	New Religious Movements.	3	RELG 444	Indian Ocean Religious Networks.	3
RELG 317	Special Topics in Religion 2.	3	RELG 445	Modern Buddhism.	3
RELG 318	Special Topics in Religion 3.	3	RELG 449	The Religion of the Samurai.	3
RELG 319	Special Topics in Religion 4.	3	RELG 450	The Way of the Kami.	3
RELG 322	Church and Empire to 1300 .	3	RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 323	Church and State since 1300.	3	RELG 453	Vajrayana Buddhism.	3
RELG 325	Varieties Religious Experience in Christianity.	3	RELG 455	Religion, Performance and Agency in South Asia	3
RELG 326	Christians in the Roman World.	3	RELG 459	Bhagavadgita and Mahabharata .	3
RELG 331	Religion and Globalization.	3	RELG 470	Theological Ethics.	3
RELG 332	Conversations Across World Religions.	3	RELG 479	Christianity in Global Perspective.	3
RELG 333	Principles of Theology.	3	RELG 502	Greco-Roman Judaism.	3
RELG 334	Theology of History.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 336	Contemporary Theological Issues.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 547	Special Topics in Hinduism.	3
RELG 338	Women and the Christian Tradition.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 551	Special Topics in Buddhism.	3
RELG 344	Mahayana Buddhism.	3	RELG 552	Advaita Vedanta.	3
RELG 348	Classical Hinduism.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 350	Bhakti Hinduism.	3	RELG 558	Indian Tantric Traditions.	3
RELG 352	Japanese Religions: History and Thought.	3	RELG 560	Buddhist Poetry.	3
RELG 353	Gandhi: His Life and Thought.	3	RELG 570	Research in Interfaith Studies.	3
RELG 354	Chinese Religions.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 358	Religion and Cinema in India.	3	RELG 572	Religion and Global Politics.	3
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 380	Religion, Philosophy, Modernity.	3			

Religious Studies Joint Honours Component (B.A.) (36 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Joint Honours - Religious Studies Component focuses on the methodological approaches to the study of religious traditions, including the teachings, and history of those traditions.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable). A 3-credit Joint Honours thesis related to the student's area of focus must be submitted. The Joint Honours thesis topic must be approved by a Religious Studies adviser. A supervisor will be appointed to guide the student.

Students in Joint Honours program must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each component of the Joint Honours program.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3
RELG 456	Theories of Religion.	3
RELG 489	Joint Honours Thesis.	3

Complementary Courses (27 credits)

6 credits from core courses:

Expand allContract all

Course	Title	Credits
CATH 220	Selected Topics in Catholic Studies.	3
RELG 201	Religions of the Ancient Near East.	3
RELG 202	Religion of Ancient Israel.	3
RELG 203	Bible and Western Culture.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 210	Jesus of Nazareth.	3
RELG 212	Introduction to African Religions and Cultures	3
RELG 252	Hinduism and Buddhism.	3
RELG 253	Religions of East Asia.	3
RELG 254	Introduction to Yoga Traditions.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 271	Religion and Sexuality.	3

0-6 credits of Classical language courses:

Expand allContract all

Course	Title	Credits
CLAS 210	Introductory Latin 1.	3
CLAS 212	Introductory Latin 2.	3
CLAS 215	Intensive Introductory Latin.	6
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
CLAS 225	Intensive Introductory Ancient Greek.	6
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
RELG 257D1	Introductory Sanskrit.	3
RELG 257D2	Introductory Sanskrit.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 357D1	Sanskrit 2.	3
RELG 357D2	Sanskrit 2.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 381	Advanced New Testament Greek.	3
RELG 390D1	Elementary Biblical Hebrew.	3
RELG 390D2	Elementary Biblical Hebrew.	3
RELG 457D1	Advanced Sanskrit.	3
RELG 457D2	Advanced Sanskrit.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3
RELG 491	Biblical Hebrew Narratives.	3
RELG 492	Biblical Hebrew Poetry.	3
15-21 credits from advanced courses at the 300 level or higher:		
Expand allContract all		
Course	Title	Credits
CATH 335	Confessions of Saint Augustine.	3
RELG 300	Second Temple Judaism.	3
CATH 375AA	Topics in Catholic Theology	3
ISLA 375	Sufi Women	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 530	Advanced Sufism	3
RELG 302	Literature of Ancient Israel 1.	3
RELG 303	Literature of Ancient Israel 2.	3

RELG 307	Bible, Quran and Interpretations.	3	RELG 434	Advanced Theology.	3
RELG 309	World Religions and Cultures They Create..	3	RELG 440	Global Islam.	3
RELG 311	Formation of the New Testament.	3	RELG 444	Indian Ocean Religious Networks.	3
RELG 312	The Gospels.	3	RELG 449	The Religion of the Samurai.	3
RELG 315	Special Topics in Religion 1.	3	RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 316	New Religious Movements.	3	RELG 453	Vajrayana Buddhism.	3
RELG 317	Special Topics in Religion 2.	3	RELG 455	Religion, Performance and Agency in South Asia	3
RELG 318	Special Topics in Religion 3.	3	RELG 459	Bhagavadgita and Mahabharata .	3
RELG 319	Special Topics in Religion 4.	3	RELG 470	Theological Ethics.	3
RELG 322	Church and Empire to 1300 .	3	RELG 479	Christianity in Global Perspective.	3
RELG 323	Church and State since 1300.	3	RELG 502	Greco-Roman Judaism.	3
RELG 325	Varieties Religious Experience in Christianity.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 326	Christians in the Roman World.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 331	Religion and Globalization.	3	RELG 547	Special Topics in Hinduism.	3
RELG 332	Conversations Across World Religions.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 333	Principles of Theology.	3	RELG 551	Special Topics in Buddhism.	3
RELG 334	Theology of History.	3	RELG 552	Advaita Vedanta.	3
RELG 336	Contemporary Theological Issues.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 558	Indian Tantric Traditions.	3
RELG 338	Women and the Christian Tradition.	3	RELG 560	Buddhist Poetry.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 570	Research in Interfaith Studies.	3
RELG 344	Mahayana Buddhism.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 348	Classical Hinduism.	3	RELG 572	Religion and Global Politics.	3
RELG 350	Bhakti Hinduism.	3			
RELG 352	Japanese Religions: History and Thought.	3			
RELG 353	Gandhi: His Life and Thought.	3			
RELG 354	Chinese Religions.	3			
RELG 358	Religion and Cinema in India.	3			
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 380	Religion, Philosophy, Modernity.	3			
RELG 382	Contemporary Theory of Religion .	3			
RELG 399	Christian Spirituality.	3			
RELG 407	The Writings.	3			
RELG 408	The Prophets.	3			
RELG 419	Religious Heritage and Tourism.	3			
RELG 422	Medieval Religious Texts.	3			
RELG 423	Reformation Thought.	3			

Religious Studies (B.Th.) (120 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Theology

Program credit weight: 120

Program Description

The Bachelor of Theology (B.Th.) degree requires 120 credits. Many students enter the program with advanced standing, and their credit requirement for the degree is adjusted accordingly. All students must discuss their course selection with their program adviser.

Students admitted on the basis of a bachelor degree will have advanced standing and should consult their program adviser to determine any course equivalencies completed during their first degree and how these affect their program requirements for the Bachelor of Theology.

The Bachelor of Theology degree serves three types of students: those seeking a classically oriented undergraduate program in the humanities that allows them to focus eventually on theology and related disciplines (90/120 credits); those who already have a degree but desire to add this competency, whether out of personal interest or with a view to graduate research in a theological discipline (60 credits); and those who not only desire but require it for the sake of a subsequent professional degree such as the Master of Divinity.

The Bachelor of Theology engages students in some of life's biggest questions and some of the world's most influential literature. Those doing 90 or more credits can (schedules permitting) add a Minor Concentration program in some other desired discipline or field; those who enter the program at Year 0 can add two Minor Concentrations offered by the Faculty of Arts and the Faculty of Science.

The normal course load in the degree for full-time students is 15 credits per term, five 3-credit courses. By permission of the Chair of the B.Th. Committee, students may also enroll for courses at any university in the province of Quebec. For further information, see Quebec Inter-University Transfer Agreement: McGill Students.

Professional and vocational courses (e.g., leading to ordination) are available through the In-Ministry Year (Master of Divinity (M.Div.)) upon the completion of the B.Th. degree.

Degree Requirements – B.Th. students

To be eligible for a B.Th. degree, a student must fulfil all School and program requirements as indicated below:

1. The B.Th. is either a 120-credit program (if you were admitted from outside Quebec and without a prior bachelor's degree), a 90-credit program (if you were admitted on the basis of a Quebec DCS/DEC or equivalent), or a 60-credit program (if you were admitted on the basis of a recognized bachelor's degree).
2. Qualification for the degree must include Satisfactory Standing (a grade of C or better) in all required courses and the complementary courses specified in Year 3, and the accumulation of enough acceptable credits to make a total of either 60, 90, or 120 credits. It should be noted that if you take the B.Th. program as part of the M.Div. program, you need to maintain a minimum CGPA of 2.5 to be eligible for the M.Div. degree.
3. Normally, the program credits must be earned within five years from the date of entrance.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
RELG 302	Literature of Ancient Israel 1.	3
RELG 303	Literature of Ancient Israel 2.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 311	Formation of the New Testament.	3
RELG 312	The Gospels.	3
RELG 322	Church and Empire to 1300 .	3
RELG 323	Church and State since 1300.	3
RELG 333	Principles of Theology.	3
RELG 341	Introduction: Philosophy of Religion.	3
RELG 434	Advanced Theology.	3
RELG 470	Theological Ethics.	3

Complementary Courses (12-51 Credits)

Students with advanced standing take the minimum number of complementary credits, which must be at the 300 level or above from the following.

Philosophy

0-6 credits from:

Expand allContract all

Course	Title	Credits
PHIL 200	Introduction to Philosophy 1.	3
PHIL 230	Introduction to Moral Philosophy 1.	3
RELG 321	Western Intellectual Tradition.	3
RELG 380	Religion, Philosophy, Modernity.	3

Theology

3-6 credits from:

Expand allContract all

Course	Title	Credits
CATH 310	Catholic Intellectual Traditions.	3
RELG 211	Theology through Fiction.	3
RELG 334	Theology of History.	3
RELG 336	Contemporary Theological Issues.	3

Bible (Old Testament)

3-6 credits from:

Expand allContract all

Course	Title	Credits
RELG 201	Religions of the Ancient Near East.	3
RELG 202	Religion of Ancient Israel.	3
RELG 407	The Writings.	3
RELG 408	The Prophets.	3
RELG 491	Biblical Hebrew Narratives.	3
RELG 492	Biblical Hebrew Poetry.	3

Bible (New Testament)

3-6 credits from:

Expand allContract all

Course	Title	Credits
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
RELG 210	Jesus of Nazareth.	3
RELG 279	New Testament Greek 1.	3
RELG 326	Christians in the Roman World.	3
RELG 381	Advanced New Testament Greek.	3
RELG 410	Paul and His Legacy.	3
RELG 411	New Testament Exegesis.	3
RELG 482	Exegesis of Greek New Testament.	3

Church History

3-6 credits from:

Expand allContract all

Course	Title	Credits	
CATH 330	Catholicism in a Global Context.	3	Students with advanced standing take the minimum number of elective credits.
RELG 310	Canadian Church History.	3	Elective credits may be applied to any Minor Concentration available in Arts or Science other than Religious Studies (see specific Minor Concentration regulations)
RELG 338	Women and the Christian Tradition.	3	
RELG 399	Christian Spirituality.	3	
RELG 423	Reformation Thought.	3	
RELG 498	Special Studies.	3	

Comparative Religion

0-6 credits from:

Expand allContract all

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 370	The Qur'an: History and Interpretation.	3
ISLA 375	Sufi Women	3
ISLA 380	Islamic Philosophy and Theology.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 530	Advanced Sufism	3
JWST 382	Jews, Judaism and Social Justice.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 207	Introduction to the Study of Religions.	3
RELG 252	Hinduism and Buddhism.	3
RELG 253	Religions of East Asia.	3
RELG 288	Introduction to Sikhism.	3
RELG 348	Classical Hinduism.	3
RELG 352	Japanese Religions: History and Thought.	3
RELG 353	Gandhi: His Life and Thought.	3
RELG 354	Chinese Religions.	3

Ethics

0-3 credits from:

Expand allContract all

Course	Title	Credits
CATH 340	Catholicism and Public Policy.	3
CATH 370AA	Indigenous Religiosity and Spirituality.	3
RELG 370	Religion and Human Rights.	3
RELG 371	Course RELG 371 Not Found	3
RELG 373	Christian Ethics of Love.	3
RELG 376	Religious Ethics.	3

0-12 credits of undergraduate RELG or CATH courses (for students who do not have advanced standing that enter program at Year 0).

Elective Courses (15-36)

15-36 credits chosen from Arts or Science disciplines.

Religious Studies Honours (B.Th.) (120 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Theology

Program credit weight: 120

Program Description

Students who have achieved a CGPA of 3.30 at the end of B.Th. Year 2 (U2) may apply to the B.Th. Committee for permission to enter the Honours program. They will be required to complete the normal requirements for the Bachelor of Theology (B.Th.) (p. 248) degree and the honours courses RELG 494 and RELG 495 in the B.Th. Year 3 (U3) with a grade of B or better.

Degree Requirements – B.Th. students

To be eligible for a B.Th. degree, a student must fulfil all School and program requirements as indicated below:

1. The B.Th. is either a 120-credit program (if you were admitted from outside Quebec and without a prior bachelor's degree), a 90-credit program (if you were admitted on the basis of a Quebec DCS/DEC or equivalent), or a 60-credit program (if you were admitted on the basis of a recognized bachelor's degree).
2. Qualification for the degree must include Satisfactory Standing (a grade of C or better) in all required courses and the complementary courses specified in Year 3, and the accumulation of enough acceptable credits to make a total of either 60, 90, or 120 credits. It should be noted that if you take the B.Th. program as part of the M.Div. program, you need to maintain a minimum CGPA of 2.5 to be eligible for the M.Div. degree.
3. Normally, the program credits must be earned within five years from the date of entrance.

Year 3 (U3) - Required Courses - Honours (6 credits)

Expand allContract all

Course	Title	Credits
RELG 494	B.Th. Honours Seminar 1.	3
RELG 495	B.Th. Honours Seminar 2.	3

Science for Arts Students Minor Concentration (B.A.) (18 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

Freshman students interested in this Minor Concentration should contact the Program Adviser to ensure that they are taking appropriate prerequisite courses. Students should declare their intention to obtain this Minor Concentration during their U1 year and consult the Program Adviser regarding approval of courses to meet the requirements.

Students select one of the following disciplinary areas as their area of specialization for the program:

Atmospheric and Oceanic Sciences; Biochemistry; Biology - Cell and Molecular Stream, Organismal Stream; Chemistry; Earth and Planetary Sciences; Geography; Mathematics and Statistics; Microbiology and Immunology; Pathology; Physics; Physiology; Psychology.

This Minor Concentration is coordinated by the Department of Biology. For more information contact the Undergraduate Program Adviser in the Biology Department, N7/9B, Stewart Biology Building, 514-398-4109.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
BIOL 210	Perspectives of Science.	3

Complementary Courses (15 credits)

15 credits taken in one of the disciplinary areas given below. Where suggested courses have prerequisites at the 200 or 300 level associated with them, credit for the associated prerequisites may also be counted as part of the 15 credits.

Prerequisites at the 100 level cannot be counted toward the Minor concentration.

With the prior written approval of the Program Adviser, an appropriate alternative set of courses may be substituted.

Disciplinary Areas

Atmospheric and Oceanic Sciences

Prerequisites which cannot be counted toward the Minor concentration: MATH 140 Calculus 1. and MATH 141 Calculus 2. or equivalents; PHYS 101 Introductory Physics - Mechanics. or PHYS 131 Mechanics and Waves. and PHYS 102 Introductory Physics - Electromagnetism. or PHYS 142 Electromagnetism and Optics. or equivalents recommended.

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry.	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 357	Atmospheric and Oceanic Science Laboratory.	3
MATH 222	Calculus 3.	3

Biochemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 Principles: Organismal Biology. and BIOL 112 Cell and Molecular Biology., CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., or their equivalents.

Expand allContract all

Course	Title	Credits
ANAT 262	Introductory Molecular and Cell Biology. ¹	3
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 200	Molecular Biology.	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ Students select BIOL 201 Cell Biology and Metabolism. or ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function..

Students who have completed CHEM 212 Introductory Organic Chemistry 1. and CHEM 222 Introductory Organic Chemistry 2. or their equivalents may take one or both of the following:

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3

Biology

Students interested in Biology can choose between two streams. Cell and molecular biology leads to upper-level courses in developmental biology, human genetics, molecular biology, or allied fields.

Organismal biology leads to upper-level courses in biodiversity, ecology, neurobiology, behaviour, or conservation biology. See the Undergraduate Program Adviser in the Biology Department, N7/9B, Stewart Biology Building, to arrange a counselling session on the choice of courses above the 200 level.

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 Principles: Organismal Biology. and BIOL 112 Cell and Molecular Biology., plus CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2. or their equivalents; in addition, for the Organismal Stream, PHYS 101 Introductory Physics - Mechanics. or PHYS 131 Mechanics and Waves.; and MATH 140 Calculus 1. and PHYS 102 Introductory Physics - Electromagnetism. or PHYS 142 Electromagnetism and Optics. if taking BIOL 306 Neural Basis of Behaviour..

Biology - Cell and Molecular Stream

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ Students select BIOL 201 Cell Biology and Metabolism. or ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function..

Plus a selected subset of these or related upper-level courses:

Expand all Contract all

Course	Title	Credits	Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3	CHEM 212	Introductory Organic Chemistry 1.	4
BIOL 303	Developmental Biology.	3	CHEM 222	Introductory Organic Chemistry 2.	4
BIOL 313	Eukaryotic Cell Biology.	3	CHEM 267	Introductory Chemical Analysis.	3
BIOL 314	Molecular Biology of Cancer.	3	CHEM 281	Inorganic Chemistry 1.	3
			CHEM 302	Introductory Organic Chemistry 3.	3
			CHEM 334	Advanced Materials.	3
			CHEM 381	Inorganic Chemistry 2.	3

Biology - Organismal Stream

Expand all Contract all

Course	Title	Credits	Course	Title	Credits
BIOL 200	Molecular Biology.	3	One of:		
BIOL 201	Cell Biology and Metabolism. ¹	3	Expand all Contract all		
BIOL 205	Functional Biology of Plants and Animals.	3	Course	Title	Credits
BIOL 215	Introduction to Ecology and Evolution.	3	CHEM 203	Survey of Physical Chemistry.	3
CHEM 212	Introductory Organic Chemistry 1.	4	CHEM 204	Physical Chemistry/Biological Sciences 1.	3

¹ Students select BIOL 201 Cell Biology and Metabolism, or ANAT 212 Molecular Mechanisms of Cell Function, or BIOC 212 Molecular Mechanisms of Cell Function..

Plus one or more of these or related upper-level courses:

Expand all Contract all

Course	Title	Credits	Course	Title	Credits
BIOL 304	Evolution.	3	Prerequisites which cannot be counted toward the Minor concentration: CHEM 110 General Chemistry 1, and CHEM 120 General Chemistry 2., and MATH 140 Calculus 1, or equivalents.		
BIOL 305	Animal Diversity.	3			
BIOL 306	Neural Basis of Behaviour.	3			
BIOL 307	Behavioural Ecology.	3	Students select 15 credits from the following courses and their associated prerequisites:		
BIOL 308	Ecological Dynamics.	3			
BIOL 310	Biodiversity and Ecosystems.	3	Expand all Contract all		
BIOL 465	Conservation Biology.	3	Course	Title	Credits

Chemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 112 Cell and Molecular Biology., and CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., or their equivalents; MATH 140 Calculus 1., and PHYS 101 Introductory Physics - Mechanics, or PHYS 131 Mechanics and Waves., and PHYS 102 Introductory Physics - Electromagnetism, or PHYS 142 Electromagnetism and Optics., or their equivalents if taking CHEM 334 Advanced Materials..

The Department also strongly encourages students to take one or more courses involving a laboratory because the science of chemistry is rooted in laboratory experience.

Students select 15 credits from the following courses and their associated prerequisites:

Note: CHEM 212 Introductory Organic Chemistry 1. or its equivalent is prerequisite to all 200-level or higher courses.

Expand all Contract all

EPSC 201	Understanding Planet Earth. ¹	3
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 231	Field School 1.	3
EPSC 233	Earth and Life Through Time ¹	3
EPSC 240	Geology in the Field.	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3
EPSC 334	Invertebrate Paleontology.	3
EPSC 355	Sedimentary Geology.	3
EPSC 549	Hydrogeology.	3

¹ Students select either EPSC 201 Understanding Planet Earth, or EPSC 233 Earth and Life Through Time.

Other EPSC credits at the 300 level or higher may be used with the approval of an Earth and Planetary Science advisor, by a student who meets the pre-requisites.

Geography

(Students in any Minor or Major concentration or Honours program in Geography cannot choose this disciplinary area.)

Geography advisers recommend including some preparation in chemistry, statistics, and calculus for study in this area even if formal prerequisites are not in place.

Students select 15 credits from the following courses and their associated prerequisites:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3
GEOG 372	Running Water Environments.	3
GEOG 470	Wetlands.	3

Mathematics and Statistics

(Students in any Minor or Major concentration or Honours program in Mathematics and Statistics cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor: MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2. or equivalents.

Suggested courses:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3
MATH 204	Principles of Statistics 2.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 338	History and Philosophy of Mathematics.	3

Microbiology and Immunology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 Principles: Organismal Biology. and BIOL 112 Cell and Molecular Biology., CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2. or their equivalents.

Note: CHEM 212 Introductory Organic Chemistry 1. or its equivalent is prerequisite, or corequisite, to these courses.

Students select 15 credits from the following courses and their associated prerequisites:

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
CHEM 212	Introductory Organic Chemistry 1.	4
MIMM 211	Introductory Microbiology.	3
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3

¹

Students select BIOL 201 Cell Biology and Metabolism. or ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function..

Pathology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 Principles: Organismal Biology. and BIOL 112 Cell and Molecular Biology., plus CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., MATH 140 Calculus 1., and PHYS 101 Introductory Physics - Mechanics. or PHYS 131 Mechanics and Waves. and PHYS 102 Introductory Physics - Electromagnetism. or PHYS 142 Electromagnetism and Optics., or their equivalents.

PATH 300 Human Disease., together with its associate prerequisites, is well suited to students with an interest in medicine.

Students select 15 credits from the following courses and their associated prerequisites:

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
CHEM 212	Introductory Organic Chemistry 1.	4
PATH 300	Human Disease.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

¹

Students select BIOL 201 Cell Biology and Metabolism. or ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function..

Physics

Prerequisites which cannot be counted toward the Minor concentration: PHYS 131 Mechanics and Waves., PHYS 142 Electromagnetism and Optics., MATH 140 Calculus 1., MATH 141 Calculus 2., MATH 222 Calculus 3. or their equivalents.

Honours courses may be substituted for their Major equivalents only with the permission of the Department.

Students select 15 credits from the following courses and their associated prerequisites:

Expand allContract all

Course	Title	Credits
PHYS 224	Physics of Music.	3
PHYS 230	Dynamics of Simple Systems.	3

Course	Title	Credits
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3
PHYS 242	Electricity and Magnetism.	2
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 320	Introductory Astrophysics.	3

Physiology

Prerequisites which cannot be counted towards the Minor concentration: BIOL 111 Principles: Organismal Biology, and BIOL 112 Cell and Molecular Biology., CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., MATH 140 Calculus 1., PHYS 101 Introductory Physics - Mechanics. or PHYS 131 Mechanics and Waves., and PHYS 102 Introductory Physics - Electromagnetism. or PHYS 142 Electromagnetism and Optics., or their equivalents.

Students should select:

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ Students select BIOL 201 Cell Biology and Metabolism. or BIOC 212 Molecular Mechanisms of Cell Function..

Both:

Course	Title	Credits
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

And, if credits permit, one or more of these intermediate-level Physiology courses:

Course	Title	Credits
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3

Psychology

(Students in any Minor or Major concentration or Honours program in Psychology cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor concentration: PSYC 100 Introduction to Psychology. (or equivalent).

Students in the Minor concentration take 15 credits of Psychology selected as follows:

Expand allContract all

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics.	3
Plus 6 credits from the following core courses:		
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

Plus 6 credits Psychology courses at the 300 level or higher (excluding PSYC 305 Statistics for Experimental Design.).

Social Studies of Medicine Minor Concentration (B.A.) (18 credits)

Offered by: Social Studies of Medicine (Faculty of Medicine and Health Sciences)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

Course	Title	Credits
HIST 249	Health and the Healer in Western History.	3
HIST 319	The Scientific Revolution.	3
HIST 335	Science and Medicine in Canada.	3
HIST 356	Medicine in the Medieval West.	3
HIST 381	Colonial Africa.	3
HIST 424	Gender, Sexuality and Medicine.	3
HIST 430	Topics in Modern Medicine.	3
HIST 452AA	Topics in Pre-Modern Medicine.	3
HIST 457AA	Topics in Medical History.	3
HIST 558	Modern Medicine: Seminar.	3

HIST 559	Modern Medicine: Research.	3	SWRK 219	Anti-Oppression Social Work Practice.	3
HIST 567D1	Seminar: Medieval Medicine.	3	SWRK 220	History and Philosophy of Social Work.	3
HIST 567D2	Seminar: Medieval Medicine.	3	SWRK 221	Public Social Services in Canada.	3
			SWRK 222	Introduction to Practicum.	3
			SWRK 224	Human Development Across the Lifespan.	3
			SWRK 354	Social Work in the Health Field.	3
			WCOM 371	Selected Communication Topic 1.	3

Anthropology of Medicine

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 314	Psychological Anthropology 01.	3
ANTH 325	Anthropology of the Self.	3
ANTH 407	Anthropology of the Body.	3
ANTH 423	Mind, Brain and Psychopathology.	3
ANTH 438	Topics in Medical Anthropology.	3
ANTH 480	Special Topic 5.	3
ANTH 481	Special Topic 6.	3

Sociology of Medicine

Expand allContract all

Course	Title	Credits
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 365	Health and Development.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 588	Biosociology/Biodemography.	3

Foundational Social Services Skills and Knowledge (Cert.) (30 credits)

Offered by: Social Work (Faculty of Arts)

Program credit weight: 30

Program Overview

The Certificate in Foundational Social Services Skills and Knowledge, offered in Nunavik, focuses on integrated social work knowledge pertaining to history, theory, research, practice modalities, and policies that influence the delivery of health and social services.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
EDEC 288	Inuktitut for Beginners.	3
IDFC 500	Indigenous Field Studies.	3
INDG 202	Topics in Indigenous Studies 1.	3

Para Social Work & Community Practices (Cert.) (30 credits)

Offered by: Social Work (Faculty of Arts)

Program credit weight: 30

Program Description

The Certificate in Para Social Work and Community Practices, offered in Nunavik, focuses on professional skills in well-established methods of practice with individuals, families, and groups in communities and organizations. Also included is essential training through field practice.

Required Courses (30 credits)

Course	Title	Credits
EDEC 289	Inuktitut Orthography and Grammar.	3
IDFC 300	Lean Operational Practices in Public Services.	3
SWRK 319	Critical Thought and Ethics in Social Work.	3
SWRK 320	Practice with Individuals and Families 1.	3
SWRK 321	Introduction to Practice with Groups.	3
SWRK 322	Field Practice 1.	3
SWRK 323	Field Practice 2.	3
SWRK 326	Practice with Individuals and Families 2.	3
SWRK 327	Approaches to Community Practice.	3
SWRK 344	Integrative Seminar 1.	3

Social Work (Three-Year Program) (B.S.W.) (90 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Bachelor of Social Work

Program credit weight: 90

Program Description

The School of Social Work offers an undergraduate program leading to a Bachelor of Social Work (BSW) degree. The BSW focuses on generalist social work practice in a range of health and social service settings locally, nationally and internationally. Drawing on principles of diversity and equity consistent with anti-oppressive frameworks, the BSW examines theoretical foundations and practice skills to assess and respond to social problems affecting individuals, families,

groups and communities. Core objectives include: exploration of an identity consistent with the values and ethics of the profession; promoting human rights and social justice; addressing historical and contemporary systemic and structural sources of oppression and marginalization; and, engaging in critical thinking in relation to client populations and in response to inequitable policies and their implications for disadvantaged groups. The BSW includes essential training through field practice.

Field Practicum

Students in the three-year B.S.W. program complete a field placement during their second and third years, two days per week, in different settings each year. Students must have completed a minimum of 24 credits to begin the second year (U2) field placement, comprised of all U1 required SWRK courses and any combination of SWRK complementary, non-SWRK complementary and/or elective courses totaling 24 credits. Students must have completed a minimum number of 54 credits to begin the third year (U3) field placement, comprised of all U1 and U2 required SWRK courses, and any combination of SWRK complementary, non-SWRK complementary and/or elective courses totaling 54 credits.

Required Courses (63 credits)

U1

Expand allContract all

Course	Title	Credits
SWRK 219	Anti-Oppression Social Work Practice.	3
SWRK 220	History and Philosophy of Social Work.	3
SWRK 221	Public Social Services in Canada.	3
SWRK 222	Introduction to Practicum.	3
SWRK 224	Human Development Across the Lifespan.	3

U2

Expand allContract all

Course	Title	Credits
SWRK 319	Critical Thought and Ethics in Social Work.	3
SWRK 320	Practice with Individuals and Families 1.	3
SWRK 321	Introduction to Practice with Groups.	3
SWRK 322	Field Practice 1.	3
SWRK 323	Field Practice 2.	3
SWRK 326	Practice with Individuals and Families 2.	3
SWRK 327	Approaches to Community Practice.	3
SWRK 344	Integrative Seminar 1.	3
SWRK 353	Introduction to Mental Health Practice.	3

U3

Expand allContract all

Course	Title	Credits
SWRK 420	Advanced Field Practice 1.	3
SWRK 421	Advanced Field Practice 2.	3
SWRK 422	Integrative Seminar 2.	3
SWRK 423	Social Work Research.	3
SWRK 428	Social Policy and Administration.	3

SWRK 445	First Peoples and Social Work.	3
SWRK 527	Advanced Social Work Practice in Quebec.	3

Complementary Courses (21 credits)

9 credits of Social Work (SWRK) courses.

12 credits of non-Social Work courses.

Elective Courses (6 credits)

6 credits of non-Social Work courses.

Sociology Minor Concentration (B.A.) (18 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3

Complementary Courses (12 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3

9 credits of complementary courses chosen from the list of courses offered by the Sociology Department. At least 3 credits must be taken at the 300-level or higher.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand allContract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3
SOCI 388	Crime.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 571	Deviance and Social Control.	3

Politics and Social Change

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3
SOCI 345	Topics in Sociology.	3
SOCI 354	Dynamics of Industrial Societies.	3
SOCI 365	Health and Development.	3

SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 424	Networks and Social Structures.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 455	Post-Socialist Societies.	3
SOCI 484	Emerging Democratic States.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3

Social Stratification: Class, Ethnicity, and Gender

Expand allContract all

Course	Title	Credits
SOCI 227	Jews in North America.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 255	Gender and the State.	3
SOCI 270	Sociology of Gender.	3
SOCI 300	Sociology of Sexualities	3
SOCI 321	Gender and Work.	3
SOCI 333	Social Stratification.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 355	Rural Life in a Global Society.	3
SOCI 366	Neighborhoods and Inequality .	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 410	Urban Ethnography.	3
SOCI 415	Education and Inequality.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3
SOCI 505	Sociology of Digital Intimacy	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits
SOCI 235	Technology and Society.	3
SOCI 301	Artificial Intelligence and Society	3
SOCI 304	Sociology of the Welfare State.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3
SOCI 420	Organizations.	3
SOCI 470	Topics in Economic Sociology.	3

Sociology Major Concentration (B.A.) (36 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses

U1 Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 Statistics in Social Research. must replace it with another 300-level or higher sociology course.

Expand allContract all

Course	Title	Credits
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

Expand allContract all

Course	Title	Credits
SOCI 341	Current Problems in Sociology 02.	3
SOCI 342	Independent Study 1.	3
SOCI 343	Independent Study 2.	3
SOCI 441	Current Problems in Sociology 03.	3
SOCI 442	Independent Reading and Research 01.	3
SOCI 443	Independent Reading and Research 02.	3

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand allContract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3

			Course	Title	Credits
SOCI 325	Sociology of Science.	3	SOCI 227	Jews in North America.	3
SOCI 388	Crime.	3	SOCI 230	Sociology of Ethnic Relations.	3
SOCI 430	Sociology of Citizenship.	3	SOCI 255	Gender and the State.	3
SOCI 488	Punishment and Prisons.	3	SOCI 270	Sociology of Gender.	3
SOCI 489	Gender, Deviance and Social Control.	3	SOCI 300	Sociology of Sexualities	3
SOCI 495	Social Problems and Conflicts.	3	SOCI 321	Gender and Work.	3
SOCI 503	Surveillance in Modern Society.	3	SOCI 333	Social Stratification.	3
SOCI 515	Medicine and Society.	3	SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3	SOCI 355	Rural Life in a Global Society.	3
SOCI 535	Sociology of the Family.	3	SOCI 366	Neighborhoods and Inequality.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3	SOCI 375	Suspect Minorities in Canada.	3
SOCI 571	Deviance and Social Control.	3	SOCI 410	Urban Ethnography.	3
SOCI 595	Migration Governance and Stratification.	3	SOCI 415	Education and Inequality.	3
			SOCI 430	Sociology of Citizenship.	3
			SOCI 475	Canadian Ethnic Studies Seminar.	3
			SOCI 505	Sociology of Digital Intimacy	3
			SOCI 520	Migration and Immigrant Groups.	3
			SOCI 526	Indigenous Women's Health and Healthcare .	3
			SOCI 530	Sex and Gender.	3
			SOCI 595	Migration Governance and Stratification.	3

Politics and Social Change

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3
SOCI 345	Topics in Sociology.	3
SOCI 354	Dynamics of Industrial Societies.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 424	Networks and Social Structures.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 455	Post-Socialist Societies.	3
SOCI 484	Emerging Democratic States.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 595	Migration Governance and Stratification.	3

Social Stratification: Class, Ethnicity, and Gender

Expand allContract all

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits
SOCI 235	Technology and Society.	3
SOCI 301	Artificial Intelligence and Society	3
SOCI 304	Sociology of the Welfare State.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3
SOCI 420	Organizations.	3
SOCI 470	Topics in Economic Sociology.	3

Sociology Honours (B.A.) (51 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 51

Program Description

The B.A.; Honours in Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students may register for the Honours program at the beginning of their second year (U2).

To remain in the Honours program and receive an Honours degree, students must maintain a GPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (21 credits)

Note: Students who are exempted from SOCI 350 Statistics in Social Research. must replace it with another 300-level or higher sociology course.

Expand allContract all

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 477	Qualitative Methods in Sociology.	3
SOCI 480	Honours Project.	3

Complementary Courses (30 credits)

30 credits of complementary sociology (SOCI) courses selected with the following specifications:

9 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand allContract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3
SOCI 388	Crime.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 571	Deviance and Social Control.	3
SOCI 595	Migration Governance and Stratification.	3

Politics and Social Change

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3
SOCI 345	Topics in Sociology.	3
SOCI 354	Dynamics of Industrial Societies.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 424	Networks and Social Structures.	3
SOCI 446	Colonialism and Society.	3
SOCI 455	Post-Socialist Societies.	3
SOCI 484	Emerging Democratic States.	3

SOCI 495	Social Problems and Conflicts.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 588	Biosociology/Biodemography.	3
SOCI 595	Migration Governance and Stratification.	3

Social Stratification: Class, Ethnicity, and Gender

Expand allContract all

Course	Title	Credits
SOCI 227	Jews in North America.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 255	Gender and the State.	3
SOCI 270	Sociology of Gender.	3
SOCI 300	Sociology of Sexualities	3
SOCI 321	Gender and Work.	3
SOCI 333	Social Stratification.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 355	Rural Life in a Global Society.	3
SOCI 366	Neighborhoods and Inequality .	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 410	Urban Ethnography.	3
SOCI 415	Education and Inequality.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3
SOCI 505	Sociology of Digital Intimacy	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 595	Migration Governance and Stratification.	3

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits
SOCI 235	Technology and Society.	3
SOCI 301	Artificial Intelligence and Society	3
SOCI 304	Sociology of the Welfare State.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3
SOCI 420	Organizations.	3
SOCI 445	Readings: Sociological Theory.	3
SOCI 470	Topics in Economic Sociology.	3

Sociology Joint Honours Component (B.A.) (36 credits)

Offered by: Sociology (Faculty of Arts)

3 **Degree:** Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 36

Program Description

The Joint Honours Component Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of a Joint Honours program is an asset when applying to graduate or profession schools.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2). Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 Statistics in Social Research. must replace it with another 300-level or higher sociology course.

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 480	Honours Project.	3

Complementary Courses (18 credits)

18 credits of complementary sociology (SOCI) courses approved by the Departmental Honours Adviser.

500-Level Seminars:

Seminars at the 500 level are open to Honours/Joint Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours/Joint Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

[Expand all](#)[Contract all](#)

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3
SOCI 388	Crime.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 571	Deviance and Social Control.	3
SOCI 595	Migration Governance and Stratification.	3

Politics and Social Change

[Expand all](#)[Contract all](#)

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3

SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3
SOCI 345	Topics in Sociology.	3
SOCI 354	Dynamics of Industrial Societies.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 424	Networks and Social Structures.	3
SOCI 446	Colonialism and Society.	3
SOCI 455	Post-Socialist Societies.	3
SOCI 484	Emerging Democratic States.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 595	Migration Governance and Stratification.	3

Social Stratification: Class, Ethnicity, and Gender

[Expand all](#)[Contract all](#)

Course	Title	Credits
SOCI 227	Jews in North America.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 255	Gender and the State.	3
SOCI 270	Sociology of Gender.	3
SOCI 300	Sociology of Sexualities	3
SOCI 321	Gender and Work.	3
SOCI 333	Social Stratification.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 355	Rural Life in a Global Society.	3
SOCI 366	Neighborhoods and Inequality .	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 415	Education and Inequality.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3
SOCI 505	Sociology of Digital Intimacy	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 595	Migration Governance and Stratification.	3

Work, Organizations, and the Economy

[Expand all](#)[Contract all](#)

Course	Title	Credits
SOCI 235	Technology and Society.	3
SOCI 301	Artificial Intelligence and Society	3

			Credits
SOCI 304	Sociology of the Welfare State.	3	
SOCI 312	Sociology of Work and Industry.	3	
SOCI 325	Sociology of Science.	3	
SOCI 420	Organizations.	3	
SOCI 470	Topics in Economic Sociology.	3	

Foundation Program (B.A. & Sc.) (30 credits)

Offered by: Arts & Science Admin (Shared)

Degree: Bachelor of Arts and Science

Program credit weight: 30

Program Description

Students who need to complete 97-120 credits to fulfil their degree requirements are admitted to the Foundation Year. Students with specific career goals should consult an academic adviser about their choice of program within the B.A. & Sc. However, students intending to pursue further studies following the B.A. & Sc. should refer to the admissions requirements of particular programs for the appropriate prerequisite courses.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Foundational Courses

The Foundation Program requirements include foundational courses in both Science and Arts which must be selected as follows:

Math

At least two mathematics courses:

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3
MATH 150	Calculus A.	4

At most one of a Second Calculus:

Expand allContract all

			Credits
3	Course	Title	
3	MATH 141	Calculus 2.	4
3	MATH 151	Calculus B.	4

At most one of a Linear Algebra course:

			Credits
3	Expand allContract all		
	Course	Title	
	MATH 133	Linear Algebra and Geometry.	3

Science

At least three foundational science courses:

Any number of:

			Credits
3	Expand allContract all		
	Course	Title	
	BIOL 111	Principles: Organismal Biology.	3
3	BIOL 112	Cell and Molecular Biology.	3
4	CHEM 110	General Chemistry 1.	4
4	CHEM 120	General Chemistry 2.	4

At most one of a First Physics:

			Credits
4	Expand allContract all		
	Course	Title	
	PHYS 101	Introductory Physics - Mechanics.	4
4	PHYS 131	Mechanics and Waves.	4

At most one of a Second Physics:

Note: PHYS 101 Introductory Physics - Mechanics. is a prerequisite for PHYS 102 Introductory Physics - Electromagnetism.; and PHYS 131 Mechanics and Waves. is a prerequisite for PHYS 142 Electromagnetism and Optics..

Expand allContract all

			Credits
4	Expand allContract all		
	Course	Title	
	PHYS 102	Introductory Physics - Electromagnetism.	4
4	PHYS 142	Electromagnetism and Optics.	4

At most two of another Foundational Science:

			Credits
4	Expand allContract all		
	Course	Title	
	COMP 202	Foundations of Programming. ¹	3
3	ESYS 104	The Earth System.	3
3	PSYC 100	Introduction to Psychology. ¹	3

¹ Note: Students in a minor or major concentration where COMP 202 Foundations of Programming. or PSYC 100 Introduction to Psychology. is a required course will need to take an alternative COMP or PSYC course if using COMP 202 Foundations of Programming. or PSYC 100 Introduction to Psychology. to satisfy the Foundation Program requirement.

Arts

At least three Arts courses (or 9 credits) to be chosen in two of the following three categories: Humanities, Languages, and Social Sciences.

A maximum of two courses (or 6 credits) may be chosen from one category, and no more than two courses (or 6 credits) can be taken in any one department.

Note: No course may fulfil the requirements for more than one program, including the B.A. & Sc. Foundation Program.

Humanities (Literature and Civilization)

Courses selected from the following subjects:

- Art History and Communications Studies (ARTH and COMS)
- Classics (CLAS)
- East Asian Studies (EAST)
- English (ENGL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (HISP)
- Islamic Studies (ISLA)
- Italian studies (ITAL)
- Jewish Studies (JWST)
- Music for Arts (MUAR only)
- Philosophy (PHIL)
- Religious Studies (RELG)
- Russian Studies (RUSS)

Languages

Courses may be taken in this category to improve language skills.

Languages include:

- Classics (Latin, Ancient Greek, Modern Greek) (CLAS)
- East Asian Studies (Chinese, Japanese, Korean) (EAST)
- English as a Second Language (CEAP, CESL)
- French as a Second Language (FRSL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (Spanish) (HISP)
- Islamic Studies (Arabic, Persian, Turkish, Urdu) (ISLA)
- Italian (ITAL)
- Jewish Studies (Hebrew, Yiddish) (JWST)
- Russian and Slavic Studies (Polish, Russian, Armenian, Czech) (RUSS)

Social Sciences

Courses selected from the following subjects:

- Anthropology (ANTH)
- Economics (ECON)
- History (HIST)
- Linguistics (LING)
- Political Science (POLI)
- Sociology (SOCI)

Advanced Standing/Transfer Credits

Students who have completed the Diploma of Collegial Studies, Advanced Placement exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill placement examinations may receive exemption and/or credit for all or part of the Mathematics and foundational science courses as well as exemption from all or part of the Arts courses requirement of the Foundation Program. Similarly, students who have completed courses at other universities or colleges may receive exemptions and/or credits.

Advanced Placement Examination results with a score of 4 or 5 must be declared by the student at the time of initial registration at the University.

For more information about advanced standing, please consult: <http://www.mcgill.ca/students/transfercredit/>. Students must carefully select their mathematics and science Foundation Program courses so that they have all the required prerequisites for their intended departmental programs.

Anthropology Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students interested in Joint Honours should consult an advisor in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the programs selected.

Students who wish to study at the Honours level in two disciplines can combine the Joint Honours Program component in Anthropology with one in any other Arts discipline.

The Joint Honours thesis topic should be arranged by consultation with an advisor in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

Joint Honours students must maintain a GPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

The Joint Honours thesis should be determined in consultation with advisers from both Joint Honours components programs. Normally, the thesis is 6 credits of coursework with 3 credits applying to each Joint Honours component.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ANTH 491	Joint Honours Thesis.	3

Complementary Courses (33 credits)

200 Level

A maximum of 12 credits of Anthropology (ANTH) courses at the 200 level.

300 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 300 level (only one 3-credit Special Topic course at the 300 level is permitted).

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ANTH 352	History of Anthropological Theory.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 357	Archaeological Methods.	3
ANTH 358	The Process of Anthropological Research.	3
ANTH 359	History of Archaeological Theory.	3

400/500 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 400 or 500 level (maximum of one 3-credit Special Topic course at the 400 level).

Anthropology Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major concentration is especially appropriate for students who aim to take courses across several sub-disciplinary or topical concentrations, and for whom specialization is premature. There are no prerequisites for admission to the Major Concentration Anthropology. Students are encouraged to take a course in quantitative methods (listed under the Honours program), but this course cannot count as part of this concentration.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

200 Level

6 credits selected from 200-level courses in Anthropology (ANTH).

Core (350 Level)

6 credits from:

(Note: These are restricted to students in any Anthropology program with U2 standing or above.)

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ANTH 352	History of Anthropological Theory.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 357	Archaeological Methods.	3
ANTH 358	The Process of Anthropological Research.	3
ANTH 359	History of Archaeological Theory.	3

400 Level

6 credits, two 400-level Anthropology (ANTH) courses.

Undergraduate Level

18 credits of additional undergraduate-level Anthropology courses of which no more than 6 credits may be at the 200 level.

Anthropology Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Anthropology permits students to explore the development and diversity of human beings and human society and culture through courses in human evolution, prehistoric archaeology, and socio-cultural anthropology. Students may include courses in all of these fields, or may focus on one or two.

This program may be expanded to the Major Concentration Anthropology.

Complementary Courses (18 credits)

6-9 credits from 200-level courses in Anthropology.

9-12 credits from any 300-, or 400-, or 500-level courses in Anthropology (only 3 credits of which can be at the 400 or 500 level. Only 1 Special Topic course can be taken.)

Art History Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Art History provides an introduction to the study of diverse artistic traditions from ancient to contemporary times. It is expandable to the Major Concentration Art History.

Complementary Courses (18 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline.

Expand allContract all

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3
3-15 complementary courses chosen from among departmental course offerings. At least 9 of these credits must be at the 300 level or above.		
Note: Courses in studio practice cannot be counted towards the Minor Concentration.		
Expand allContract all		
ARTH 200	Introduction to Art History 1.	3
ARTH 202	Introduction to Contemporary Art.	3
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
ARTH 215	Introduction to East Asian Art.	3
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 225	Introduction to Seventeenth - Century Art.	3
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3
ARTH 300	Canadian Art to 1914.	3
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 310	Postcolonialism.	3
ARTH 314	The Medieval City.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 321	Visual Culture of the Dutch Republic.	3
ARTH 323	Realism and Impressionism.	3
ARTH 325	Visual Culture Renaissance Venice.	3
ARTH 326	Studies in Manuscript and Print Culture.	3
ARTH 336	Art Now.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 352	Feminism in Art and Art History.	3
ARTH 353	Selected Topics in Art History 1.	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 357	Early Chinese Art.	3
ARTH 360	Studies in the Photographic.	3
ARTH 368	Studies in Northern Renaissance Art 01.	3
ARTH 411	Canadian Art and Race.	3
ARTH 420	Selected Topics in Art and Architecture 1.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 422	Selected Topics in Art and Architecture 3.	3
ARTH 425	Arts of Medieval Spain.	3
ARTH 430	Concepts - Discipline Art History.	3
ARTH 435	Early Modern Visual Culture.	3
ARTH 440	The Body and Visual Culture.	3

			Credits
ARTH 447	Independent Research Course.	3	
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3	COMS 200 History of Communication. 3
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3	COMS 230 Communication and Democracy. 3
ARTH 490	Museum Internship	3	COMS 300 Media and Modernity in the 20th Century. 3
ARTH 501	Advanced Topics in Art History and Visual Culture.	3	COMS 301 Core Concepts in Critical Theory. 3
ARTH 502	Advanced Topics in Art and Architectural History.	3	COMS 310 Media and Feminist Studies. 3
			COMS 320 Media and Empire. 3
			COMS 330 Media in Cultural Life. 3
			COMS 340 New Media. 3
			COMS 350 Sound Culture. 3
			COMS 354 Media Studies of Crime. 3
			COMS 355 Media Governance. 3
			COMS 361 Selected Topics Communication Studies 1. 3
			COMS 362 Selected Topics Communication Studies 2. 3
			COMS 400 Critical Theory Seminar. 3
			COMS 410 Cultures in Visualization. 3
			COMS 411 Disability, Technology and Communication. 3
			COMS 425 Urban Culture and Everyday Life. 3
			COMS 435 Advanced Issues in Media Governance. 3
			COMS 490 Special Topics in History and Theory of Media. 3
			COMS 491 Special Topics in Communications Studies. 3
			COMS 492 Power, Difference and Justice. 3
			COMS 495 Directed Reading. 3
			COMS 497 Independent Study. 3
			COMS 510 Canadian Broadcasting Policy. 3

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

Expand allContract all

Course	Title	Credits
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
PHIL 336	Aesthetics.	3
PHIL 436	Aesthetics 2.	3

Communication Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Communication Studies provides undergraduate students with a critical understanding of the role that communications media and communication technologies play in a society. It offers students intellectually challenging and innovative instruction in key traditions of Communications and Media Studies and new theoretical and methodological practices being developed in the field. The courses included in the program focus on issues of the relationship between communication, democracy and urban life, the social life of communication technologies, the historical development and transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
COMS 210	Introduction to Communication Studies.	3

Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

Expand allContract all

Art History Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3

21-33 complementary credits chosen from among departmental course offerings as follows:

- A maximum of 12 credits may be at the 200 level.
- A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship Museum Internship).

Note: Courses in studio practice cannot be counted toward the Major concentration.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ARTH 200	Introduction to Art History 1.	3
ARTH 202	Introduction to Contemporary Art.	3
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
ARTH 215	Introduction to East Asian Art.	3
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 225	Introduction to Seventeenth - Century Art.	3
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3
ARTH 300	Canadian Art to 1914.	3
ARTH 302	Aspects of Canadian Art.	3
ARTH 310	Postcolonialism.	3
ARTH 314	The Medieval City.	3
ARTH 315	Indigenous Art and Culture.	3

ARTH 321	Visual Culture of the Dutch Republic.	3
ARTH 323	Realism and Impressionism.	3
ARTH 325	Visual Culture Renaissance Venice.	3
ARTH 326	Studies in Manuscript and Print Culture.	3
ARTH 336	Art Now.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 352	Feminism in Art and Art History.	3
ARTH 353	Selected Topics in Art History 1.	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 357	Early Chinese Art.	3
ARTH 360	Studies in the Photographic.	3
ARTH 368	Studies in Northern Renaissance Art 01.	3
ARTH 411	Canadian Art and Race.	3
ARTH 420	Selected Topics in Art and Architecture 1.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 422	Selected Topics in Art and Architecture 3.	3
ARTH 425	Arts of Medieval Spain.	3
ARTH 430	Concepts - Discipline Art History.	3
ARTH 435	Early Modern Visual Culture.	3
ARTH 440	The Body and Visual Culture.	3
ARTH 447	Independent Research Course.	3
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3
ARTH 474	Studies in Later 18th and 19th Century Art 03.	3
ARTH 490	Museum Internship	3
ARTH 501	Advanced Topics in Art History and Visual Culture.	3
ARTH 502	Advanced Topics in Art and Architectural History.	3

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
PHIL 336	Aesthetics.	3
PHIL 436	Aesthetics 2.	3

Art History Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ARTH 400	Selected Methods in Art History.	3
ARTH 401	Honours Research Paper.	3

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

Expand allContract all

Course	Title	Credits
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 357	Early Chinese Art.	3

15-27 credits chosen from among departmental course offerings as follows:

- A maximum of 12 credits may be at the 200 level.
- A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship Museum Internship).

Expand allContract all

Course	Title	Credits
ARTH 200	Introduction to Art History 1.	3
ARTH 202	Introduction to Contemporary Art.	3
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 205	Introduction to Modern Art.	3
ARTH 207	Introduction Early Modern Art 1400-1700.	3
ARTH 209	Introduction to Ancient Art and Architecture.	3
ARTH 215	Introduction to East Asian Art.	3
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 225	Introduction to Seventeenth - Century Art.	3
ARTH 226	Introduction to Eighteenth-Century Art and Architecture.	3
ARTH 300	Canadian Art to 1914.	3
ARTH 302	Aspects of Canadian Art.	3
ARTH 305	Methods in Art History.	3
ARTH 310	Postcolonialism.	3
ARTH 314	The Medieval City.	3
ARTH 315	Indigenous Art and Culture.	3
ARTH 321	Visual Culture of the Dutch Republic.	3
ARTH 323	Realism and Impressionism.	3
ARTH 325	Visual Culture Renaissance Venice.	3
ARTH 326	Studies in Manuscript and Print Culture.	3
ARTH 336	Art Now.	3
ARTH 339	Critical Issues - Contemporary Art.	3
ARTH 352	Feminism in Art and Art History.	3
ARTH 353	Selected Topics in Art History 1.	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 357	Early Chinese Art.	3
ARTH 360	Studies in the Photographic.	3
ARTH 368	Studies in Northern Renaissance Art 01.	3
ARTH 411	Canadian Art and Race.	3
ARTH 420	Selected Topics in Art and Architecture 1.	3
ARTH 421	Selected Topics in Art and Architecture 2.	3
ARTH 422	Selected Topics in Art and Architecture 3.	3
ARTH 425	Arts of Medieval Spain.	3
ARTH 430	Concepts - Discipline Art History.	3
ARTH 435	Early Modern Visual Culture.	3
ARTH 440	The Body and Visual Culture.	3
ARTH 447	Independent Research Course.	3
ARTH 473	Studies in 17th and Early 18th Century Art 04.	3

ARTH 474	Studies in Later 18th and 19th Century Art 03.	3	² Note: Students may select ATOC 404 Climate Physics. or PHYS 404 Climate Physics. but not both.
ARTH 490	Museum Internship	3	
ARTH 501	Advanced Topics in Art History and Visual Culture.	3	3-9 credits selected from:
ARTH 502	Advanced Topics in Art and Architectural History.	3	Expand allContract all

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

Expand allContract all

Course	Title	Credits
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
PHIL 336	Aesthetics.	3
PHIL 436	Aesthetics 2.	3

Atmospheric Science Minor (B.A. & Sc.) (18 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.Sc.; Minor in Atmospheric Science is intended to provide the basics of the atmospheric and oceanic properties and circulation, in connection with weather phenomena and the climate system.

Complementary Courses (18 credits)

9-15 selected from:

Expand allContract all

Course	Title	Credits
ATOCA 214	Introduction: Physics of the Atmosphere.	3
ATOCA 215	Oceans, Weather and Climate.	3
ATOCA 219	Introduction to Atmospheric Chemistry.	3
ATOCA 309	Weather Radars and Satellites.	3
ATOCA 312	Rotating Fluid Dynamics.	3
ATOCA 315	Thermodynamics and Convection.	3
ATOCA 357	Atmospheric and Oceanic Science Laboratory.	3
ATOCA 404	Climate Physics.	3
CHEM 219	Introduction to Atmospheric Chemistry.	3
PHYS 404	Climate Physics.	3

¹ Note: Students may select ATOC 219 Introduction to Atmospheric Chemistry. or CHEM 219 Introduction to Atmospheric Chemistry. but not both.

² Note: Students may select ATOC 404 Climate Physics. or PHYS 404 Climate Physics. but not both.

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
ATOCA 512	Atmospheric and Oceanic Dynamics.	3
ATOCA 513	Waves and Stability.	3

ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 548	Mesoscale Meteorology.	0-3
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3

Complementary Courses (6 credits)

Any 6 credits of biology courses at the 300 level or higher approved by the Biology Adviser.

Biology - Organismal Minor Concentration (B.A. & Sc.) (19 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 19

Biology - Cell/Molecular Minor Concentration (B.A. & Sc.) (19 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 19

Program Description

The Minor Concentration Biology - Cell/Molecular, is restricted to students in the B.A. & Sc. It is a sequence of courses designed to yield a broad introduction to cell/molecular biology.

Advising Note: Students interested in a Biology minor concentration must choose either the Cell/Molecular option or the Organismal option, but may not take both. Students interested in a more in-depth program in Biology should consider the Major concentration.

Students may complete this program with a minimum of 18 credits or a maximum of 19 credits depending if they are exempt from taking CHEM 212 Introductory Organic Chemistry 1. and their choice of complementary courses.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 215	Introduction to Ecology and Evolution. ²	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

² Students who have already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent will choose another appropriate complementary course, to be approved by the adviser.

Students may complete this program with a minimum of 18 credits or a maximum of 19 credits depending if they are exempt from taking CHEM 212 Introductory Organic Chemistry 1. and their choice of complementary course.

Required Courses (16 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 215	Introduction to Ecology and Evolution. ²	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

² Students who have already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent will choose another appropriate complementary course, to be approved by the adviser.

Complementary Course (3 credits)

Any 3-credit biology course at the 300 level or higher approved by the Biology Adviser.

Biology Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Arts and Science**Program credit weight:** 36

Program Description

The B.A. & Sc.; Major Concentration in Biology is a planned sequence of courses designed to promote a basic grounding in biology. Topics include a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Students must take at least 36 new credits in this program.

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 216	Biology of Behaviour.	3

Complementary Courses (18 credits)

3-4 credits from CHEM block:

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ *Students who have already taken CHEM 212 or its equivalent as advance credits may choose to substitute CHEM 204, or CHEM 222, or a 300-500 levels complementary Biology course, to be approved by the Biology Advisor.

3-4 credits from:

Expand allContract all

Course	Title	Credits
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 311	Advanced Methods in Organismal Biology.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 302	Fundamentals of Genetics and Genomics.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 305	Animal Diversity.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 307	Behavioural Ecology.	3
BIOL 308	Ecological Dynamics.	3
BIOL 313	Eukaryotic Cell Biology.	3

4-6 credits from Biology courses at the 300-500 levels.

Chemistry Minor (B.A. & Sc.) (20 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 20

Program Description

The goal of this minor program is to provide interested B.Sc. students with a good grounding in chemistry through an introduction to one of the traditional sub-disciplines in chemistry (analytical, inorganic, organic, and physical).

Required Courses (13 credits)

If any of the required courses are part of your primary program or were taken at CEGEP, then they must be substituted by courses from the minor options list that are not part of your primary program. The total number of credits exclusive to the minor is at least 19.

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 281	Inorganic Chemistry 1.	3

¹ Denotes courses with CEGEP equivalents.

Complementary Courses

6-7 credits

Expand allContract all

Course	Title	Credits
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
CHEM 219	Introduction to Atmospheric Chemistry.	3
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 334	Advanced Materials.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 462	Green Chemistry.	3

¹ Any level 300-500 CHEM course can be substituted for courses within this list.

Chemistry Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration Chemistry is not certified by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

The Major Concentration Chemistry, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (21 credits)

*Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 253	Introductory Physical Chemistry Laboratory.	1
CHEM 267	Introductory Chemical Analysis.	3
CHEM 281	Inorganic Chemistry 1.	3

Complementary Courses (15 credits)

15 credits selected from:

Expand allContract all

Course	Title	Credits
CHEM 219	Introduction to Atmospheric Chemistry.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 332	Biological Chemistry.	3
CHEM 334	Advanced Materials.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 381	Inorganic Chemistry 2.	3

Chemistry courses at the 400+ level.

Cognitive Science Honours (B.A. & Sc.) (60 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 60

Program Description

The Honours Cognitive Science, which is restricted to students in the B.A. & Sc., is an extension of the Interfaculty program and offers students an opportunity to undertake a research project in close association with professors in their main Arts and Science focus areas. Prior to selecting the Honours program, students should meet with the Cognitive Science Program Adviser <https://www.mcgill.ca/science/undergraduate/advice/sousa> and review the B.A. & Sc. academic requirements for Honours and First Class Honours, which can also be found under "University Regulations and Resources," "Graduation," and "Graduation Honours."

To receive an Honours degree, students are required to achieve a minimum overall program GPA of 3.3 at graduation, and attain a grade of B+ (3.3) or better in COGS 444 Honours Research.. Students must

complete both the 60-credit Honours program and an approved minor concentration or a minor in the Faculties of Arts or of Science.

Note: B.A. & Sc. students who take interfaculty programs, including the Honours in Cognitive Science, must take at least 21 credits in Arts and 21 credits in Science across their interfaculty program and their minor or minor concentration.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (9 credits)

Expand allContract all

Course	Title	Credits
COGS 444	Honours Research.	6
NSCI 201	Introduction to Neuroscience 2.	3

Core Complementary Courses: (21 credits)

3 credits from the following logic courses:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

3 credits from the following statistics courses:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3
MATH 323	Probability.	3
PSYC 204	Introduction to Psychological Statistics.	3

3 credits from the following computer science courses:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 250	Introduction to Computer Science.	3

3 credits from the following linguistics courses:

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 260	Meaning in Language.	3

3 credits from the following philosophy courses:

Expand allContract all

Course	Title	Credits
PHIL 200	Introduction to Philosophy 1.	3
PHIL 201	Introduction to Philosophy 2.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3

3 credits from the following neuroscience courses:

Expand allContract all

Course	Title	Credits
NSCI 200	Introduction to Neuroscience 1.	3
PSYC 211	Introductory Behavioural Neuroscience.	3

3 credits from the following psychology courses:

Expand allContract all

Course	Title	Credits
PSYC 212	Perception.	3
PSYC 213	Cognition.	3

Complementary Courses (30 credits)

30 credits selected as follows:

18 credits from one of the following lists: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from any of the five lists.

Of the 30 credits Complementary Course credits, 15 credits taken must be at the 400 level or higher.

Computer Science

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 280	History and Philosophy of Computing.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 330	Theory of Computation.	3
COMP 345	From Natural Language to Data Science.	3
COMP 360	Algorithm Design.	3
COMP 400	Project in Computer Science	4

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or from the following list:

Expand all**Contract all**

Course	Title	Credits	PSYC 317	Genes and Behaviour.	3
LING 201	Introduction to Linguistics.	3	PSYC 318	Behavioural Neuroscience 2.	3
LING 210	Introduction to Speech Science.	3	PSYC 319	Computational Models - Cognition.	3
LING 260	Meaning in Language.	3	PSYC 340	Psychology of Language.	3

Philosophy

Expand all Contract all

Course	Title	Credits			
NSCI 300	Neuroethics.	3	PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3
PHIL 306	Philosophy of Mind.	3	PSYC 406	Psychological Tests.	3
PHIL 310	Intermediate Logic.	3	PSYC 410	Special Topics in Neuropsychology.	3
PHIL 311	Philosophy of Mathematics.	3	PSYC 413	Cognitive Development.	3
PHIL 341	Philosophy of Science 1.	3	PSYC 427	Sensorimotor Neuroscience.	3
PHIL 354	Plato.	3	PSYC 433	Cognitive Science.	3
PHIL 355	Aristotle.	3	PSYC 439	Correlational Techniques.	3
PHIL 360	17th Century Philosophy.	3	PSYC 443	Affective Neuroscience.	0-3
PHIL 361	18th Century Philosophy.	3	PSYC 470	Memory and Brain.	3
PHIL 367	19th Century Philosophy.	3	PSYC 506	Cognitive Neuroscience of Attention.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3	PSYC 513	Human Decision-Making.	3
PHIL 415	Philosophy of Language.	3	PSYC 514	Neurobiology of Memory.	3
PHIL 419	Epistemology.	3	PSYC 522	Neurochemistry and Behaviour.	3
			PSYC 526	Advances in Visual Perception.	3

PSYC 529	Music Cognition.	3	PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PSYC 531	Structural Equation Models.	3	PSYC 427	Sensorimotor Neuroscience.	3
PSYC 537	Advanced Seminar in Psychology of Language.	3	PSYC 433	Cognitive Science.	3
PSYC 538	Categorization, Communication and Consciousness.	3	PSYC 443	Affective Neuroscience.	0-3
PSYC 541	Multilevel Modelling.	3	PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 545	Topics in Language Acquisition.	3	PSYC 502	Psychoneuroendocrinology.	3
PSYC 560	Machine Learning Tools in Psychology .	3	PSYC 506	Cognitive Neuroscience of Attention.	3

Neuroscience

Expand allContract all

Course	Title	Credits	Course	Title	Credits	
ANAT 321	Circuitry of the Human Brain.	3	PSYT 301	Issues in Drug Dependence.	3	
BIOL 200	Molecular Biology.	3	PSYT 500	Advances: Neurobiology of Mental Disorders.	3	
BIOL 201	Cell Biology and Metabolism.	3	PSYT 515	Advanced Studies in Addiction.	3	
BIOL 306	Neural Basis of Behaviour.	3	¹ Students select either NSCI 200 Introduction to Neuroscience 1. or PHGY 209 Mammalian Physiology 1., but not both.			
BIOL 216	Biology of Behaviour.	3				
BIOL 307	Behavioural Ecology.	3				
BIOL 320	Evolution of Brain and Behaviour.	3				
BIOL 389	Laboratory in Neurobiology.	3				
BIOL 414	Invertebrate Brain Circuits and Behaviours .	3				
BIOL 506	Neurobiology of Learning.	3				
BIOL 507	Animal Communication.	3				
BIOL 517	Cognitive Ecology.	3				
BIOL 530	Advances in Neuroethology.	3				
BIOL 532	Developmental Neurobiology Seminar.	3				
BIOL 580	Genetic Approaches to Neural Systems.	3				
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3				
CHEM 212	Introductory Organic Chemistry 1.	4				
NEUR 503	Computational Neuroscience.	3				
NEUR 507	Topics in Radionuclide Imaging.	3				
NSCI 200	Introduction to Neuroscience 1.	3				
NSCI 300	Neuroethics.	3				
PHGY 209	Mammalian Physiology 1.	3				
PHGY 311	Channels, Synapses and Hormones.	3				
PHGY 314	Integrative Neuroscience.	3				
PHGY 556	Topics in Systems Neuroscience.	3				
PSYC 211	Introductory Behavioural Neuroscience.	3				
PSYC 302	Pain.	3				
PSYC 303	Introduction to Human Memory.	3				
PSYC 306	Research Methods in Psychology.	3				
PSYC 311	Human Cognition and the Brain.	3				
PSYC 317	Genes and Behaviour.	3				
PSYC 318	Behavioural Neuroscience 2.	3				
PSYC 342	Hormones and Behaviour.	3				
PSYC 410	Special Topics in Neuropsychology.	3				

Research Course

Expand allContract all

Course	Title	Credits
COGS 401	Research Cognitive Science 1.	6

Cognitive Science Interfaculty Program (B.A. & Sc.) (54 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 54

Program Description

The Interfaculty Program Cognitive Science, which is restricted to students in the B.A. & Sc., is designed to allow students to explore the multidisciplinary study of cognition in humans and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices.

Note: B.A. & Sc. students who take interfaculty programs must take at least 21 credits in Arts and 21 credits in Science across their interfaculty program and their minor or minor concentration.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3

Core Complementary Courses (21 credits)

3 credits from the following logic courses:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

3 credits from the following statistics courses:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3
MATH 323	Probability.	3

3 credits from the following computer science courses:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 250	Introduction to Computer Science.	3

3 credits from the following linguistics courses:

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 260	Meaning in Language.	3

3 credits from the following philosophy courses:

Expand allContract all

Course	Title	Credits
PHIL 200	Introduction to Philosophy 1.	3
PHIL 201	Introduction to Philosophy 2.	3

PHIL 221 Introduction to History and Philosophy of Science 2.

3

3 credits from the following neuroscience courses:

Expand allContract all

Course	Title	Credits
NSCI 200	Introduction to Neuroscience 1.	3
PSYC 211	Introductory Behavioural Neuroscience.	3

3 credits from the following psychology courses:

Expand allContract all

Course	Title	Credits
PSYC 212	Perception.	3
PSYC 213	Cognition.	3

Complementary Courses (30 credits)

30 credits are selected as follows:

18 credits from one of the following lists: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from any of the five lists.

Of the 30 Complementary Course credits, 15 credits taken must be at the 400 level or higher.

Computer Science

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 280	History and Philosophy of Computing.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 330	Theory of Computation.	3
COMP 345	From Natural Language to Data Science.	3
COMP 360	Algorithm Design.	3
COMP 400	Project in Computer Science	4
COMP 409	Concurrent Programming.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3
COMP 421	Database Systems.	3
COMP 424	Artificial Intelligence.	3
COMP 445	Computational Linguistics.	3
COMP 451	Fundamentals of Machine Learning.	3
COMP 523	Language-based Security.	3
COMP 527	Logic and Computation.	3
COMP 531	Advanced Theory of Computation.	3
COMP 545	Natural Language Understanding with Deep Learning.	4
COMP 546	Computational Perception.	4

COMP 549	Brain-Inspired Artificial Intelligence.	3	PSYC 213	Cognition.	3
COMP 550	Natural Language Processing.	3	PSYC 301	Animal Learning and Theory.	3
COMP 551	Applied Machine Learning.	4	PSYC 302	Pain.	3
COMP 558	Fundamentals of Computer Vision.	4	PSYC 303	Introduction to Human Memory.	3
COMP 562	Theory of Machine Learning.	4	PSYC 304	Child Development.	3
COMP 579	Reinforcement Learning.	4	PSYC 305	Statistics for Experimental Design.	3
MATH 222	Calculus 3.	3	PSYC 306	Research Methods in Psychology.	3
MATH 223	Linear Algebra.	3	PSYC 310	Intelligence.	3
MATH 240	Discrete Structures.	3	PSYC 311	Human Cognition and the Brain.	3
			PSYC 315	Computational Psychology.	3
			PSYC 317	Genes and Behaviour.	3
			PSYC 318	Behavioural Neuroscience 2.	3
			PSYC 319	Computational Models - Cognition.	3

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or from the following list:

Expand allContract all

Course	Title	Credits	PSYC 340	Psychology of Language.	3
LING 201	Introduction to Linguistics.	3	PSYC 341	The Psychology of Bilingualism.	3
LING 210	Introduction to Speech Science.	3	PSYC 342	Hormones and Behaviour.	3
LING 260	Meaning in Language.	3	PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3

Philosophy

Expand allContract all

Course	Title	Credits	PSYC 403	Modern Psychology in Historical Perspective.	3
NSCI 300	Neuroethics.	3	PSYC 406	Psychological Tests.	3
PHIL 306	Philosophy of Mind.	3	PSYC 410	Special Topics in Neuropsychology.	3
PHIL 310	Intermediate Logic.	3	PSYC 413	Cognitive Development.	3
PHIL 311	Philosophy of Mathematics.	3	PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PHIL 341	Philosophy of Science 1.	3	PSYC 427	Sensorimotor Neuroscience.	3
PHIL 354	Plato.	3	PSYC 433	Cognitive Science.	3
PHIL 355	Aristotle.	3	PSYC 439	Correlational Techniques.	3
PHIL 360	17th Century Philosophy.	3	PSYC 443	Affective Neuroscience.	0-3
PHIL 361	18th Century Philosophy.	3	PSYC 470	Memory and Brain.	3
PHIL 367	19th Century Philosophy.	3	PSYC 506	Cognitive Neuroscience of Attention.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3	PSYC 513	Human Decision-Making.	3
PHIL 415	Philosophy of Language.	3	PSYC 514	Neurobiology of Memory.	3
PHIL 419	Epistemology.	3	PSYC 522	Neurochemistry and Behaviour.	3
PHIL 421	Metaphysics.	3	PSYC 526	Advances in Visual Perception.	3
PHIL 441	Philosophy of Science 2.	3	PSYC 529	Music Cognition.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3	PSYC 531	Structural Equation Models.	3
PHIL 474	Phenomenology.	3	PSYC 537	Advanced Seminar in Psychology of Language.	3
			PSYC 538	Categorization, Communication and Consciousness.	3

Psychology

Expand allContract all

Course	Title	Credits	PSYC 541	Multilevel Modelling.	3
ANTH 440	Cognitive Anthropology.	3	PSYC 545	Topics in Language Acquisition.	3
MUMT 250	Music Perception and Cognition.	3	PSYC 560	Machine Learning Tools in Psychology .	3
PSYC 204	Introduction to Psychological Statistics.	3			
PSYC 211	Introductory Behavioural Neuroscience.	3			
PSYC 212	Perception.	3			

Neuroscience

Expand allContract all

Course	Title	Credits				
ANAT 321	Circuitry of the Human Brain.	3	PSYC 526	Advances in Visual Perception.	3	
BIOL 200	Molecular Biology.	3	PSYC 529	Music Cognition.	3	
BIOL 201	Cell Biology and Metabolism.	3	PSYT 301	Issues in Drug Dependence.	3	
BIOL 216	Biology of Behaviour.	3	PSYT 500	Advances: Neurobiology of Mental Disorders.	3	
BIOL 306	Neural Basis of Behaviour.	3	PSYT 515	Advanced Studies in Addiction.	3	
BIOL 307	Behavioural Ecology.	3	¹ Students select either NSCI 200 Introduction to Neuroscience 1. or PHGY 209 Mammalian Physiology 1., but not both.			
BIOL 320	Evolution of Brain and Behaviour.	3				
BIOL 389	Laboratory in Neurobiology.	3				
BIOL 414	Invertebrate Brain Circuits and Behaviours .	3				
BIOL 506	Neurobiology of Learning.	3				
BIOL 507	Animal Communication.	3	COGS 401	Research Cognitive Science 1.	6	
BIOL 517	Cognitive Ecology.	3				
BIOL 530	Advances in Neuroethology.	3				
BIOL 532	Developmental Neurobiology Seminar.	3				
BIOL 580	Genetic Approaches to Neural Systems.	3				
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3				
CHEM 212	Introductory Organic Chemistry 1.	4				
NEUR 310	Cellular Neurobiology.	3				
NEUR 503	Computational Neuroscience.	3				
NEUR 507	Topics in Radionuclide Imaging.	3				
NSCI 200	Introduction to Neuroscience 1.	3				
NSCI 300	Neuroethics.	3				
PHGY 209	Mammalian Physiology 1.	3				
PHGY 311	Channels, Synapses and Hormones.	3				
PHGY 314	Integrative Neuroscience.	3				
PHGY 556	Topics in Systems Neuroscience.	3	COMP 202	Foundations of Programming.	3	
PSYC 211	Introductory Behavioural Neuroscience.	3	COMP 206	Introduction to Software Systems.	3	
PSYC 302	Pain.	3	COMP 250	Introduction to Computer Science.	3	
PSYC 303	Introduction to Human Memory.	3	¹ Students who have taken the equivalent of COMP 202 Foundations of Programming. prior to their McGill studies should relate it with an additional Computer Science Complementary course.			
PSYC 306	Research Methods in Psychology.	3				
PSYC 311	Human Cognition and the Brain.	3				
PSYC 317	Genes and Behaviour.	3				
PSYC 318	Behavioural Neuroscience 2.	3				
PSYC 342	Hormones and Behaviour.	3				
PSYC 410	Special Topics in Neuropsychology.	3				
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3				
PSYC 427	Sensorimotor Neuroscience.	3				
PSYC 433	Cognitive Science.	3				
PSYC 443	Affective Neuroscience.	0-3				
PSYC 444	Sleep Mechanisms and Behaviour.	3	MATH 133	Linear Algebra and Geometry.	3	
PSYC 502	Psychoneuroendocrinology.	3	MATH 140	Calculus 1.	3	
PSYC 506	Cognitive Neuroscience of Attention.	3				
PSYC 514	Neurobiology of Memory.	3				
PSYC 522	Neurochemistry and Behaviour.	3				

Research Course

Expand allContract all

Course	Title	Credits
COGS 401	Research Cognitive Science 1.	6

Computer Science Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Computer Science is designed to provide the basics of computer science principles, and it may be taken in conjunction with any program in the Faculty of Arts.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3

¹ Students who have taken the equivalent of COMP 202 Foundations of Programming. prior to their McGill studies should relate it with an additional Computer Science Complementary course.

Complementary Courses (9-15 credits)

Students are strongly encouraged to talk to an advisor of the School before choosing their complementary courses to ensure they follow an approved course sequence.

6 credits from*:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3

* Students who have taken equivalent courses in CEGEP or elsewhere, or have advanced placement will be granted Advanced Standing and

do not need to take these courses. They should replace the credits of the exempted courses with elective courses.

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 396 Undergraduate Research Project., COMP 400 Project in Computer Science, COMP 401 Project in Biology and Computer Science., COMP 402 Honours Project in Computer Science and Biology., COMP 480 Independent Studies in Computer Science.

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

Computer Science Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2. (or their equivalents) should be completed prior to taking courses in this program.

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in programming do not need to take COMP 202 Foundations of Programming. and should replace it with an additional computer science complementary course.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from each of the groups A, B, C, and D:

Group A

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

Group B

Expand allContract all

Course	Title	Credits
MATH 223	Linear Algebra.	3
MATH 318	Mathematical Logic.	3
MATH 340	Discrete Mathematics.	3

Group C

Expand allContract all

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 350	Numerical Computing.	3
COMP 360	Algorithm Design.	3

Group D

Expand allContract all

Course	Title	Credits
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 Logic and Computability, and COMP courses at the 300 level or above (except COMP 396 Undergraduate Research Project.).

Software Engineering Major Concentration (B.A. & Sc.) (37 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 37

Program Description

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering."

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (30 credits)

*Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3

COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 421	Database Systems.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

Complementary Courses (7 credits)

At least 7 credits from:

Course	Title	Credits
COMP 322	Introduction to C++.	1
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
ECSE 326	Software Requirements Engineering.	3
ECSE 437	Software Delivery.	3
ECSE 539	Advanced Software Language Engineering.	4

or any COMP courses at the 300 level or above, COMP 396.

Geology Minor (B.A. & Sc.) (18 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3

Complementary Courses (12 credits)

3 credits, one of:

Expand allContract all

Course	Title	Credits	EAST 305	Current Topics: Japanese Studies 1.	3
EPSC 201	Understanding Planet Earth.	3	EAST 306	Current Topics: Japanese Studies 2.	3
EPSC 233	Earth and Life Through Time	3	EAST 307	Topics: East Asian Language and Literature 1.	3
9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.			EAST 308	Topics: East Asian Language and Literature 2.	3
			EAST 311	Rebellion and Revolution in Modern China	3
			EAST 313	Current Topics: Korean Studies 1.	3
			EAST 314	Current Topics: Korean Studies 2.	3
Expand all Contract all			EAST 350	Gender and Sexuality in Chinese Literature.	3
			EAST 351	Women Writers of China.	3
			EAST 352	Critical Approaches to Chinese Literature.	3
			EAST 353	Approaches to Chinese Cinema.	3
			EAST 361	Animation and New Media.	3
			EAST 362	Japanese Cinema.	3
			EAST 363	Early and Medieval Japan.	3
			EAST 364	Mass Culture and Postwar Japan.	3
			EAST 369	Gender and Sexuality in Asian Media.	3
			EAST 370	History of Sexuality in Japan.	3
			EAST 372	Topics in Television: Asia.	3
			EAST 375	Korean Media and Popular Culture.	3
			EAST 377	Topics: Transnational Asian Culture.	3
			EAST 388	Asian Migrations and Diasporas.	3
			EAST 402	Age of Samurai	3
			EAST 410	Martial Tradition in Chinese Literature and Culture	3
			EAST 445	Late Imperial China	3
			EAST 453	Topics: Chinese Literature.	3
			EAST 454	Topics: Chinese Cinema.	3
			EAST 461	Inventing Modern Japanese Novel.	3
			EAST 462	Japan in Asia.	3
			EAST 464	Image, Text, Performance.	3
			EAST 467	Topics: Japanese Cinema.	3
			EAST 468	Science and Technology: Asia.	3
			EAST 477	Media and Environment in Asia.	3
			EAST 478	Topics: Korean Film and Media.	3
			EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
			EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
			EAST 493	Special Topics: East Asian Studies 1.	3
			EAST 494	Special Topics: East Asian Studies 2.	3
			EAST 501	Advanced Topics in Japanese Studies 1.	3
			EAST 502	Advanced Topics in Japanese Studies 2.	3
			EAST 503	Advanced Topics in Chinese Studies 1.	3
			EAST 504	Advanced Topics in Chinese Studies 2.	3
			EAST 505	Advanced Topics in Korean Studies.	3
			EAST 515	Seminar: Beyond Orientalism.	3
			EAST 525	Critical Area Studies in Asia.	3
			EAST 550	Classical Chinese Poetry Themes and Genres.	3

East Asian Cultural Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits	EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3	EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3	EAST 213	Introduction: East Asian Culture: Korea.	3

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

[Expand all](#)[Contract all](#)

Course	Title	Credits	EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3	EAST 250	Introduction to Asian Media Studies.	3
EAST 279	Introduction to Film History.	3	EAST 279	Introduction to Film History.	3
EAST 303	Current Topics: Chinese Studies 1.	3	EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3	EAST 304	Current Topics: Chinese Studies 2.	3

EAST 559	Advanced Topics: Chinese Literature.	3	RELG 364	Intermediate Tibetan 1.	3
EAST 564	Structures of Modernity: Asia.	3	RELG 365	Intermediate Tibetan 2.	3
EAST 569	Advanced Topics: Japanese Literature.	3	RELG 451	Zen Buddhism: Poetry and Art.	3
LLCU 279	Introduction to Film History.	3	RELG 464	Advanced Tibetan 1.	3
			RELG 465	Advanced Tibetan 2.	3

Anthropology (ANTH)

Expand allContract all

Course	Title	Credits
ANTH 331	Prehistory of East Asia.	3
ANTH 500	Chinese Diversity and Diaspora.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 208	Introduction to East Asian History.	3
HIST 218	Modern East Asian History.	3
HIST 308	Formation of Chinese Tradition.	3
HIST 338	Twentieth-Century China.	3
HIST 358	China's Middle Empires.	3
HIST 439	History of Women in China.	3
HIST 441	Topics: Culture and Ritual in China.	3
HIST 442	Asian Diaspora: Chinese Overseas.	3
HIST 443	Topics: Modern Japan.	3
HIST 445	Late Imperial China.	3
HIST 508	The Art of War in China.	3
HIST 568D1	Topics in Chinese History.	3
HIST 568D2	Topics in Chinese History.	3
HIST 578D1	Seminar in Japanese History.	3
HIST 578D2	Seminar in Japanese History.	3

Management (ORGB)

Expand allContract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Political Science (POLI)

Expand allContract all

Course	Title	Credits
POLI 349	Foreign Policy: Asia.	3

Religious Studies (RELG)

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 344	Mahayana Buddhism.	3
RELG 352	Japanese Religions: History and Thought.	3
RELG 354	Chinese Religions.	3

East Asian Language and Literature Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 Credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits from the following:

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

Expand allContract all

Course	Title	Credits
EAST 220D1	First Level Korean.	4.5
EAST 220D2	First Level Korean.	4.5
EAST 230D1	First Level Chinese.	4.5
EAST 230D2	First Level Chinese.	4.5
EAST 240D1	First Level Japanese.	4.5
EAST 240D2	First Level Japanese.	4.5
EAST 241	Japanese Writing Beginners 1.	3
EAST 242	Japanese Writing Beginners 2.	3

EAST 320D1	Second Level Korean.	4.5	EAST 377	Topics: Transnational Asian Culture.	3
EAST 320D2	Second Level Korean.	4.5	EAST 388	Asian Migrations and Diasporas.	3
EAST 330D1	Second Level Chinese.	4.5	EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 330D2	Second Level Chinese.	4.5	EAST 453	Topics: Chinese Literature.	3
EAST 340D1	Second Level Japanese.	4.5	EAST 454	Topics: Chinese Cinema.	3
EAST 340D2	Second Level Japanese.	4.5	EAST 461	Inventing Modern Japanese Novel.	3
EAST 341	Japanese Writing Intermediate 1.	3	EAST 462	Japan in Asia.	3
EAST 342	Japanese Writing Intermediate 2.	3	EAST 464	Image, Text, Performance.	3
EAST 420	Third Level Korean 1.	3	EAST 467	Topics: Japanese Cinema.	3
EAST 430D1	Third Level Chinese.	3	EAST 468	Science and Technology: Asia.	3
EAST 430D2	Third Level Chinese.	3	EAST 477	Media and Environment in Asia.	3
EAST 440D1	Third Level Japanese.	3	EAST 478	Topics: Korean Film and Media.	3
EAST 440D2	Third Level Japanese.	3	EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 530D1	Fourth Level Chinese.	3	EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 530D2	Fourth Level Chinese.	3	EAST 493	Special Topics: East Asian Studies 1.	3
EAST 533	Classical Chinese 1.	3	EAST 494	Special Topics: East Asian Studies 2.	3
EAST 535	Chinese for Business 1.	3	EAST 501	Advanced Topics in Japanese Studies 1.	3
EAST 536	Chinese for Business 2.	3	EAST 502	Advanced Topics in Japanese Studies 2.	3
EAST 540D1	Fourth Level Japanese.	3	EAST 503	Advanced Topics in Chinese Studies 1.	3
EAST 540D2	Fourth Level Japanese.	3	EAST 504	Advanced Topics in Chinese Studies 2.	3
			EAST 505	Advanced Topics in Korean Studies.	3
			EAST 515	Seminar: Beyond Orientalism.	3
			EAST 525	Critical Area Studies in Asia.	3
			EAST 550	Classical Chinese Poetry Themes and Genres.	3
			EAST 551	Technologies of Self in Early China.	3
			EAST 559	Advanced Topics: Chinese Literature.	3
			EAST 564	Structures of Modernity: Asia.	3
			EAST 569	Advanced Topics: Japanese Literature.	3

East Asian Studies (EAST)

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

Expand allContract all

Course	Title	Credits
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3

East Asian Language Supplementary Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

East Asian Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in East Asian Studies provides in-depth training in the humanistic studies of East Asia (including language, society, literature, history, media, religion, politics, and art). The program includes core survey on China, Japan, and Korea.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

0-3 credits from the following:

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

Expand allContract all

Course	Title	Credits
EAST 220D1	First Level Korean.	4.5
EAST 220D2	First Level Korean.	4.5
EAST 230D1	First Level Chinese.	4.5
EAST 230D2	First Level Chinese.	4.5
EAST 240D1	First Level Japanese.	4.5
EAST 240D2	First Level Japanese.	4.5
EAST 241	Japanese Writing Beginners 1.	3
EAST 242	Japanese Writing Beginners 2.	3
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5
EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3
EAST 440D2	Third Level Japanese.	3
EAST 530D1	Fourth Level Chinese.	3
EAST 530D2	Fourth Level Chinese.	3
EAST 533	Classical Chinese 1.	3
EAST 535	Chinese for Business 1.	3
EAST 536	Chinese for Business 2.	3
EAST 540D1	Fourth Level Japanese.	3
EAST 540D2	Fourth Level Japanese.	3

East Asian Literature, Culture and Society (21-24 credits)

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3
EAST 279	Introduction to Film History.	3
EAST 303	Current Topics: Chinese Studies 1.	3
EAST 304	Current Topics: Chinese Studies 2.	3
EAST 305	Current Topics: Japanese Studies 1.	3
EAST 306	Current Topics: Japanese Studies 2.	3
EAST 307	Topics: East Asian Language and Literature 1.	3
EAST 308	Topics: East Asian Language and Literature 2.	3
EAST 313	Current Topics: Korean Studies 1.	3
EAST 314	Current Topics: Korean Studies 2.	3
EAST 328	Archaeology East Asian Empires.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 352	Critical Approaches to Chinese Literature.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 363	Early and Medieval Japan.	3
EAST 364	Mass Culture and Postwar Japan.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan.	3
EAST 372	Topics in Television: Asia.	3
EAST 375	Korean Media and Popular Culture.	3
EAST 377	Topics: Transnational Asian Culture.	3
EAST 388	Asian Migrations and Diasporas.	3
EAST 410	Martial Tradition in Chinese Literature and Culture	3
EAST 453	Topics: Chinese Literature.	3
EAST 445	Late Imperial China	3
EAST 454	Topics: Chinese Cinema.	3
EAST 461	Inventing Modern Japanese Novel.	3
EAST 462	Japan in Asia.	3
EAST 464	Image, Text, Performance.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 468	Science and Technology: Asia.	3
EAST 477	Media and Environment in Asia.	3
EAST 478	Topics: Korean Film and Media.	3
EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 493	Special Topics: East Asian Studies 1.	3
EAST 494	Special Topics: East Asian Studies 2.	3
EAST 501	Advanced Topics in Japanese Studies 1.	3
EAST 502	Advanced Topics in Japanese Studies 2.	3
EAST 503	Advanced Topics in Chinese Studies 1.	3
EAST 504	Advanced Topics in Chinese Studies 2.	3
EAST 505	Advanced Topics in Korean Studies.	3
EAST 515	Seminar: Beyond Orientalism.	3
EAST 525	Critical Area Studies in Asia.	3
EAST 550	Classical Chinese Poetry Themes and Genres.	3
EAST 551	Technologies of Self in Early China.	3
EAST 559	Advanced Topics: Chinese Literature.	3
EAST 564	Structures of Modernity: Asia.	3
EAST 569	Advanced Topics: Japanese Literature.	3
LLCU 279	Introduction to Film History.	3

Anthropology (ANTH)

Expand allContract all

Course	Title	Credits
ANTH 331	Prehistory of East Asia.	3
ANTH 500	Chinese Diversity and Diaspora.	3

Geography (GEOG)

Expand allContract all

Course	Title	Credits
GEOG 408	Geography of Development.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 208	Introduction to East Asian History.	3
HIST 218	Modern East Asian History.	3
HIST 308	Formation of Chinese Tradition.	3
HIST 338	Twentieth-Century China.	3
HIST 358	China's Middle Empires.	3
HIST 439	History of Women in China.	3
HIST 441	Topics: Culture and Ritual in China.	3
HIST 442	Asian Diaspora: Chinese Overseas.	3
HIST 443	Topics: Modern Japan.	3
HIST 445	Late Imperial China.	3
HIST 508	The Art of War in China.	3
HIST 568D1	Topics in Chinese History.	3
HIST 568D2	Topics in Chinese History.	3
HIST 578D1	Seminar in Japanese History.	3
HIST 578D2	Seminar in Japanese History.	3

Management (ORGB)

Expand allContract all

Course	Title
ORGB 380	Cross Cultural Management.

Political Science (POLI)

Expand allContract all

Course	Title
POLI 349	Foreign Policy: Asia.

Religious Studies (RELG)

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 344	Mahayana Buddhism.	3
RELG 352	Japanese Religions: History and Thought.	3
RELG 354	Chinese Religions.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 451	Zen Buddhism: Poetry and Art.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3

East Asian Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours - East Asian Studies Component provides in-depth training in the humanistic studies of East Asia (including language, society, literature, history, media, religion, politics, and art). The program includes core survey on China, Japan, and Korea. and progresses to upper-level lectures and seminars that allow students to tailor an individualized program of study. Half of the coursework will be done in East Asian Studies and the other half in another program within the Faculty of the Arts.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
EAST 495D1	Joint Honours Thesis: East Asian Studies.	1.5
EAST 495D2	Joint Honours Thesis: East Asian Studies.	1.5

Complementary Courses (33 credits)

Introduction to East Asian Culture

3-6 credits from:

Expand allContract all

Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3
EAST 212	Introduction: East Asian Culture: Japan.	3
EAST 213	Introduction: East Asian Culture: Korea.	3

0-3 credits selected from:

Expand allContract all

Course	Title	Credits
EAST 215	Introduction to East Asian Art.	3
EAST 250	Introduction to Asian Media Studies.	3

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

Expand allContract all

Course	Title	Credits
EAST 320D1	Second Level Korean.	4.5
EAST 320D2	Second Level Korean.	4.5
EAST 330D1	Second Level Chinese.	4.5
EAST 330D2	Second Level Chinese.	4.5
EAST 340D1	Second Level Japanese.	4.5
EAST 340D2	Second Level Japanese.	4.5
EAST 341	Japanese Writing Intermediate 1.	3
EAST 342	Japanese Writing Intermediate 2.	3
EAST 420	Third Level Korean 1.	3
EAST 430D1	Third Level Chinese.	3
EAST 430D2	Third Level Chinese.	3
EAST 440D1	Third Level Japanese.	3

EAST 440D2	Third Level Japanese.	3	EAST 477	Media and Environment in Asia.	3
EAST 530D1	Fourth Level Chinese.	3	EAST 478	Topics: Korean Film and Media.	3
EAST 530D2	Fourth Level Chinese.	3	EAST 491	Tutorial: East Asian Languages and Literatures 1.	3
EAST 533	Classical Chinese 1.	3	EAST 492	Tutorial: East Asian Languages and Literatures 2.	3
EAST 540D1	Fourth Level Japanese.	3	EAST 493	Special Topics: East Asian Studies 1.	3
EAST 540D2	Fourth Level Japanese.	3	EAST 494	Special Topics: East Asian Studies 2.	3

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

Expand allContract all

Course	Title	Credits			
EAST 303	Current Topics: Chinese Studies 1.	3	EAST 505	Advanced Topics in Korean Studies.	3
EAST 304	Current Topics: Chinese Studies 2.	3	EAST 515	Seminar: Beyond Orientalism.	3
EAST 305	Current Topics: Japanese Studies 1.	3	EAST 525	Critical Area Studies in Asia.	3
EAST 306	Current Topics: Japanese Studies 2.	3	EAST 550	Classical Chinese Poetry Themes and Genres.	3
EAST 307	Topics: East Asian Language and Literature 1.	3	EAST 551	Technologies of Self in Early China.	3
EAST 308	Topics: East Asian Language and Literature 2.	3	EAST 559	Advanced Topics: Chinese Literature.	3
EAST 311	Rebellion and Revolution in Modern China	3	EAST 564	Structures of Modernity: Asia.	3
EAST 313	Current Topics: Korean Studies 1.	3	EAST 569	Advanced Topics: Japanese Literature.	3
EAST 314	Current Topics: Korean Studies 2.	3			
EAST 350	Gender and Sexuality in Chinese Literature.	3			
EAST 351	Women Writers of China.	3			
EAST 352	Critical Approaches to Chinese Literature.	3			
EAST 353	Approaches to Chinese Cinema.	3			
EAST 361	Animation and New Media.	3			
EAST 362	Japanese Cinema.	3			
EAST 363	Early and Medieval Japan.	3			
EAST 364	Mass Culture and Postwar Japan.	3			
EAST 369	Gender and Sexuality in Asian Media.	3			
EAST 370	History of Sexuality in Japan.	3			
EAST 372	Topics in Television: Asia.	3			
EAST 375	Korean Media and Popular Culture.	3			
EAST 377	Topics: Transnational Asian Culture.	3			
EAST 388	Asian Migrations and Diasporas.	3			
EAST 402	Age of Samurai	3			
EAST 410	Martial Tradition in Chinese Literature and Culture	3			
EAST 445	Late Imperial China	3			
EAST 453	Topics: Chinese Literature.	3			
EAST 454	Topics: Chinese Cinema.	3			
EAST 461	Inventing Modern Japanese Novel.	3			
EAST 462	Japan in Asia.	3			
EAST 464	Image, Text, Performance.	3			
EAST 467	Topics: Japanese Cinema.	3			
EAST 468	Science and Technology: Asia.	3			

Economics Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Economics provides a moderate level of specialization in Economics for students who usually are pursuing Major Concentrations or Honours Programs in other fields of study. It does, however, provide an option to switch to or add a Major Concentration in Economics. There is a special Minor for Management students.

Complementary Courses (18 credits)

18 credits, of which 6 credits must be from Group A and 12 credits from Group B.

Group A

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3

Group B

Economics courses with course numbers above ECON 208 Microeconomic Analysis and Applications. (excluding ECON 295 Macroeconomic Policy.), at least 6 credits of which must be at the 300, 400 or 500 level.

Program Notes:

Only one of ECON 208 Microeconomic Analysis and Applications. or ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. or ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours. can be credited to the Economics Minor. Only one of ECON 209 Macroeconomic Analysis and Applications. or the 6 credit combination of (ECON 332 Macroeconomic Theory: Majors 1. and ECON 333 Macroeconomic Theory - Majors 2.) or (ECON 353 Macroeconomics - Honours 1. and ECON 354 Macroeconomics - Honours 2. can be credited to the Economics Minor. The combination of ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. and ECON 209 Macroeconomic Analysis and Applications. is allowed.

Special Minor in Economics for Management Students

Information on this Minor Concentration and its special restrictions is in the Desautels Faculty of Management website at www.mcgill.ca/desautels/programs/bcom/academics/areas-study/economics/mi.... Students should consult with the advisers in both the Faculty of Management and the Department of Economics for advice on this minor concentration.

Economics Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department. Students wishing to pursue this concentration need to consult the department's rules and regulations at: www.mcgill.ca/economics/undergraduates/majorminor.

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any majors adviser; consult the Department website for a list of advisers and their email addresses.

Students who are registering for the first time with the Department should attend the orientation meeting in August (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration in Economics students entering University at

the U1 year in September should directly proceed to ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. without taking ECON 208 Microeconomic Analysis and Applications. and ECON 209 Macroeconomic Analysis and Applications..

Note: Students who wish to switch from the Major Concentration to Honours Economics must complete all the requirements of the Honours program.

Mathematics: Mastery of high school mathematics is required for all economics courses.

Prerequisites: In general, 200-level courses have no prerequisites and 300-level and 400-level courses have ECON 230D1 Microeconomic Theory./ECON 230D2 Microeconomic Theory. or ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours. (or ECON 208 and ECON 209 Macroeconomic Analysis and Applications., or MGCR 293 Managerial Economics. and ECON 295 Macroeconomic Policy.) as prerequisites. In addition, 400-level courses have Calculus 1 (or its equivalent) or a course in mathematical techniques for economic analysis (or its equivalent) as a prerequisite.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

All students must take 6 credits of approved statistics courses.

Students should refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

Expand allContract all

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3

ECON 332	Macroeconomic Theory: Majors 1.
ECON 333	Macroeconomic Theory - Majors 2.

3	Degree Requirements – B.A. students <u>To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.</u>
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Complementary Courses (18 credits)

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

Economics Joint Honours Component (B.A. & Sc.) (30 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 30

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two approved disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs" on the Economics Department website.

Joint Honours students should consult an adviser in each of the relevant departments to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

For the Economics component of this program, Joint Honours students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics.

Continuation in the Economic component of this program from one year to the next requires a minimum grade of B- in ECON 250D1 Introduction to Economic Theory: Honours./ECON 250D2 Introduction to Economic Theory: Honours., and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours. Note that graduation with Honours has more stringent requirements (see below) than these.

For graduation with the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

Students also have to meet the requirements of the other component of this program and of the relevant Faculty for Honours and First Class Honours.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-10 credits)

For entering the program:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry. ¹	3
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ²	4

¹

² Or equivalent (to be completed prior to U2)
Or equivalent

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics courses may be waived the ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. requirement. These students will normally be required to take ECON 469 Econometrics 2 - Honours. in addition to ECON 468 Econometrics 1 - Honours..

Expand allContract all

Course	Title	Credits
ECON 250D1	Introduction to Economic Theory: Honours.	3
ECON 250D2	Introduction to Economic Theory: Honours.	3
ECON 257D1	Economic Statistics - Honours.	3
ECON 257D2	Economic Statistics - Honours.	3
ECON 353	Macroeconomics - Honours 1.	3
ECON 354	Macroeconomics - Honours 2.	3
ECON 450	Advanced Economic Theory 1 - Honours.	3

ECON 452	Advanced Economic Theory 2 - Honours.	3
ECON 468	Econometrics 1 - Honours.	3

Complementary Course (3 credits)

3 credits from:

Expand all	Contract all
Course	Title
ECON 460	History of Thought 1 - Honours.
ECON 461	History of Thought 2 - Honours.

English - Cultural Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

Expand all	Contract all
Course	Title
ENGL 275	Introduction to Cultural Studies.

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand all	Contract all
Course	Title
ENGL 315	Shakespeare.

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

Expand all	Contract all	
Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

Expand all	Contract all
Course	Title
ENGL 280	Introduction to Film as Mass Medium.
ENGL 354	Sexuality and Representation.
ENGL 366	Film Genre.
ENGL 378	Media and Culture.
ENGL 380	Non-Fiction Media: Cinema, Television, Radio.
ENGL 382	International Cinema 1.
ENGL 383	Studies in Communications 1.
ENGL 385AA	Film Adaptations of Shakespeare
ENGL 388	Studies in Popular Culture.
ENGL 389	Studies in Popular Culture.
ENGL 390	Political and Cultural Theory.
ENGL 395	Cultural and Theatre Studies.
ENGL 391AA	Spec Top:Cultural Studies 1
ENGL 440	First Nations and Inuit Literature and Media.
ENGL 476	Alternative Approaches to Media 1.
ENGL 482	International Cinema 2.

English - Drama and Theatre Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3

Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 371	Theatre History: 19th to 21st Centuries.	3
ENGL 444	Studies in Women Authors.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 416	Studies in Shakespeare.	3

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

Expand allContract all

Course	Title	Credits
ENGL 407	The 20th Century.	3
ENGL 413	Special Topics in Canadian Drama and Theatre.	3
ENGL 430	Studies in Drama.	3

ENGL 431	Studies in Drama.	3
ENGL 458	Theories of Text and Performance 1.	3
ENGL 459	Theories of Text and Performance 2.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3

Drama and Theatre Option's Offerings - Additional Courses

6 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

Expand allContract all

Course	Title	Credits
ENGL 314	20th Century Drama.	3
ENGL 434	Independent Theatre Project.	3

Drama and Theatre - Courses of Interest - Other Departments

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in the current academic year.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

Expand allContract all

Course	Title	Credits
EAST 464	Image, Text, Performance. 1	3
MUHL 287	The Opera.	3
PHIL 242	Introduction to Feminist Theory.	3
PSYC 212	Perception.	3

¹ This course has an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

English - Literature Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Major Author

3 credits on a Major Author:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 357	Chaucer .	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 417	A Major English Poet.	3
ENGL 418	A Major Modernist Writer.	3

Pre-1800

3 credits from a list of pre-1800 literature courses:

Expand allContract all

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 342	Introduction to Old English.	3
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer .	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 403	Studies in the 18th Century.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 444	Studies in Women Authors.	3
ENGL 452	Studies in Old English.	3
ENGL 456	Middle English.	3

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

Expand allContract all

Course	Title	Credits
ENGL 199	FYS: Form and Representation.	3
ENGL 204	English Literature and the Bible.	3
ENGL 237	Introduction to Study of a Literary Form.	3
ENGL 295	21C and 20C Literature and Culture	3
ENGL 297	Special Topics of Literary Study.	3
ENGL 343	Literature and Science 1.	3
ENGL 345	Literature and Society.	3
ENGL 354	Sexuality and Representation.	3
ENGL 364	Creative Writing.	3
ENGL 385AA	Film Adaptations of Shakespeare	3
ENGL 394	Popular Literary Forms.	3
ENGL 421	African Literature.	3
ENGL 424	Irish Literature.	3
ENGL 437	Studies in Literary Form.	3
ENGL 438	Studies in Literary Form.	3
ENGL 440	First Nations and Inuit Literature and Media.	3

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
ENGL 460	Studies in Literary Theory.	3
ENGL 461	Studies in Literary Theory 2.	3

English - Cultural Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3
ENGL 359	The Poetics of the Image.	3

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3

Canadian Component

3 credits from a list of courses in Cultural Studies with a Canadian component:

Course	Title	Credits
ENGL 393	Canadian Cinema.	3
ENGL 440	First Nations and Inuit Literature and Media.	3
ENGL 441	Special Topics in Canadian Cultural Studies.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component.

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 454	Topics in Cultural Studies and Gender.	3
ENGL 479	Philosophy of Film.	3
ENGL 484	Seminar in the Film.	3
ENGL 489	Culture and Critical Theory 1.	3
ENGL 490	Culture and Critical Theory 2.	3
ENGL 492	Image and Text.	3

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

Additional Courses

9 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser.

Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser who is approached by a student with strong academic grounds for including a third such course may grant permission (to a maximum of 9 extra-departmental credits) and must so indicate in advance by signing the departmental program audit sheet.

English - Drama and Theatre Major Concentration (B.A. & Sc.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Drama and Theatre option tries to place its subject in as broad a social and philosophical context as possible. The Drama and Theatre program is not designed to provide professional theatre training. The aim is rather to encourage students to explore the subject as a liberal arts discipline.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

6 credits to be taken in the first two terms of the program

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3
ENGL 355	The Poetics of Performance.	3

Complementary Courses (30 credits)

30 credits selected as described below.

3 credits from the following practice-based courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 269	Introduction to Performance.	3
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 365	Costuming for the Theatre 1.	3
ENGL 367	Acting 2.	3

					Credits
ENGL 368	Stage Scenery and Lighting 1.	3	Expand allContract all		
ENGL 372	Stage Scenery and Lighting 2.	3	Course	Title	Credits
ENGL 376	Scene Study.	3	ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 377	Costuming for the Theatre 2.	3	ENGL 308	English Renaissance Drama 1.	3
ENGL 396	Theatre Practicum 1.	3	ENGL 310	Restoration and 18th Century Drama.	3
ENGL 397	Theatre Practicum 2.	3	ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 465D1	Theatre Laboratory.	4.5	ENGL 315	Shakespeare.	3
ENGL 465D2	Theatre Laboratory.	4.5	ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 466D1	Directing for the Theatre.	3	ENGL 416	Studies in Shakespeare.	3
ENGL 466D2	Directing for the Theatre.	3			
ENGL 469	Acting 3.	3			

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

			Credits
ENGL 313	Canadian Drama and Theatre.	3	
ENGL 413	Special Topics in Canadian Drama and Theatre.	3	

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

			Credits
ENGL 317	Literary and Cultural Theory	3	
ENGL 318	Literary and Cultural Methods	3	
ENGL 319	Literary and Cultural Criticism	3	
ENGL 322	Theories of the Text.	3	
ENGL 346	Materiality and Sociology of Text.	3	
ENGL 352	Theories of Difference.	3	

Theatre History Courses

3 credits from the list of Theatre History courses:

			Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3	
ENGL 310	Restoration and 18th Century Drama.	3	
ENGL 312	Victorian and Edwardian Drama 1.	3	
ENGL 370	Theatre History: The Long Eighteenth Century.	3	
ENGL 371	Theatre History: 19th to 21st Centuries.	3	
ENGL 444	Studies in Women Authors.	3	
ENGL 467	Advanced Studies in Theatre History.	3	
ENGL 486	Special Topics in Theatre History .	3	

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

Additional Courses

12 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser

English - Literature Major Concentration (B.A. & Sc.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 311	Poetics.	3

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

Expand allContract all

Course	Title	Credits
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 410	Theme or Movement Canadian Literature.	3
ENGL 411	Studies in Canadian Fiction.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance:

Backgrounds of English Literature

Expand allContract all

Course	Title	Credits
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3

Old English

Expand allContract all

Course	Title	Credits
ENGL 342	Introduction to Old English.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 452	Studies in Old English.	3

Medieval

Expand allContract all

Course	Title	Credits
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer .	3
ENGL 456	Middle English.	3

Renaissance

Expand allContract all

Course	Title	Credits
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 416	Studies in Shakespeare.	3

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

Expand allContract all

Course	Title	Credits
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 444	Studies in Women Authors.	3

18th Century

Expand allContract all

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3

ENGL 403	Studies in the 18th Century.	3	Course	Title	Credits
ENGL 444	Studies in Women Authors.	3	ENGL 320	Postcolonial Literature.	3
			ENGL 443	Contemporary Women's Fiction.	3
			ENGL 444	Studies in Women Authors.	3

Romantic

Expand allContract all

Course	Title	Credits	Contemporary	Credits
ENGL 331	Literature Romantic Period 1.	3	ENGL 295	21C and 20C Literature and Culture
ENGL 332	Literature Romantic Period 2.	3	ENGL 320	Postcolonial Literature.
ENGL 405	Studies in 19th Century Literature 2.	3	ENGL 333	Development of Canadian Poetry 2.
ENGL 444	Studies in Women Authors.	3	ENGL 336	The 20th Century Novel 2.

Victorian

Expand allContract all

Course	Title	Credits	Contemporary	Credits
ENGL 329	English Novel: 19th Century 1.	3	ENGL 407	The 20th Century.
ENGL 330	English Novel: 19th Century 2.	3	ENGL 408	The 20th Century.
ENGL 334	Victorian Poetry.	3	ENGL 419	Studies in 20th Century Literature.
ENGL 404	Studies in 19th Century Literature 1.	3	ENGL 443	Contemporary Women's Fiction.
ENGL 405	Studies in 19th Century Literature 2.	3	ENGL 444	Studies in Women Authors.
ENGL 444	Studies in Women Authors.	3		

19th Century American

Expand allContract all

Course	Title	Credits	Contemporary	Credits
ENGL 326	19th Century American Prose.	3	ENGL 315	Shakespeare.
ENGL 422	Studies in 19th Century American Literature.	3	ENGL 316	Milton.
ENGL 444	Studies in Women Authors.	3	ENGL 357	Chaucer.

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

Expand allContract all

Course	Title	Credits	Contemporary	Credits
ENGL 361	Poetry of the 20th Century 1.	3	ENGL 409	Studies in a Canadian Author.
ENGL 414	Studies in 20th Century Literature 1.	3	ENGL 416	Studies in Shakespeare.
ENGL 444	Studies in Women Authors.	3	ENGL 417	A Major English Poet.

Modernist

Expand allContract all

Course	Title	Credits	Contemporary	Credits
ENGL 335	The 20th Century Novel 1.	3	ENGL 418	A Major Modernist Writer.
ENGL 361	Poetry of the 20th Century 1.	3		
ENGL 414	Studies in 20th Century Literature 1.	3		
ENGL 418	A Major Modernist Writer.	3		
ENGL 444	Studies in Women Authors.	3		

Post-modernist

Expand allContract all

Additional Courses

6 additional credits from ENGL offerings, in the Literature, Cultural Studies, and Drama and Theatre Options. Other courses require approval by a departmental adviser.

**English - Cultural Studies
Joint Honours Component
(B.A. & Sc.) (36 credits)****Offered by:** English (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36**Program Description**

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in

English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENGL 275	Introduction to Cultural Studies.	3
ENGL 277	Introduction to Film Studies.	3
ENGL 359	The Poetics of the Image.	3

Complementary Courses (27 credits)

27 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. In addition to the Advanced Study requirement, 3 of the remaining 21 Complementary Course credits must be completed at the 500 level. A maximum of 9 of the 27 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

Expand allContract all

Course	Title	Credits
ENGL 315	Shakespeare.	3
ENGL 381	A Film-Maker 1.	3
ENGL 409	Studies in a Canadian Author.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 417	A Major English Poet.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 481	A Film-Maker 2.	3
ENGL 516	Shakespeare.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

Expand allContract all

Course	Title	Credits
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 374	Film Movement or Period.	3
ENGL 444	Studies in Women Authors.	3
ENGL 451	A Period in Cinema.	3
ENGL 480	Studies in History of Film 1.	3

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

Expand allContract all

Course	Title	Credits
ENGL 444	Studies in Women Authors.	3
ENGL 454	Topics in Cultural Studies and Gender.	3
ENGL 479	Philosophy of Film.	3
ENGL 484	Seminar in the Film.	3
ENGL 489	Culture and Critical Theory 1.	3
ENGL 490	Culture and Critical Theory 2.	3
ENGL 492	Image and Text.	3

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

English - Drama and Theatre Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENGL 230	Introduction to Theatre Studies.	3
ENGL 355	The Poetics of Performance.	3

Complementary Courses (30 credits)

30 credits selected as described below. In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. In addition to the Advanced Study requirement, 3 of the remaining 24 Complementary Course credits must be completed at the 500 level. A maximum of 9 of the 30 credits are allowed at the 200 level, none in the final year of the program.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

OR

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

3 credits from the following practice-based courses:

Expand allContract all

Course	Title	Credits
ENGL 269	Introduction to Performance.	3
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Dramatic Literature

3 credits in Dramatic Literature:

For a list of courses for the current academic year, please consult the Department of English web page <http://www.mcgill.ca/english/>.

History of the Theatre

3 credits in History of the Theatre:

Expand allContract all

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 308	English Renaissance Drama 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 312	Victorian and Edwardian Drama 1.	3
ENGL 314	20th Century Drama.	3
ENGL 315	Shakespeare.	3
ENGL 370	Theatre History: The Long Eighteenth Century.	3
ENGL 371	Theatre History: 19th to 21st Centuries.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 444	Studies in Women Authors.	3
ENGL 467	Advanced Studies in Theatre History.	3
ENGL 486	Special Topics in Theatre History .	3
ENGL 516	Shakespeare.	3
ENGL 566	Special Studies in Drama 1.	3

Performance-Oriented Courses

3 credits from the list of Performance-Oriented courses:

Expand allContract all

Course	Title	Credits
ENGL 365	Costuming for the Theatre 1.	3
ENGL 368	Stage Scenery and Lighting 1.	3
ENGL 372	Stage Scenery and Lighting 2.	3
ENGL 377	Costuming for the Theatre 2.	3
ENGL 396	Theatre Practicum 1.	3
ENGL 397	Theatre Practicum 2.	3

ENGL 465D1	Theatre Laboratory. ¹	4.5	Honours program and applications, and this website should also be consulted prior to contacting the Adviser.
ENGL 465D2	Theatre Laboratory. ¹	4.5	
ENGL 466D1	Directing for the Theatre. ²	3	
ENGL 466D2	Directing for the Theatre. ²	3	
ENGL 469	Acting 3.	3	
ENGL 565	Drama Workshop.	3	

¹² Note: Spanned credits.² The amount over 3 credits can be attributed to Departmental Offerings credits.

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

English - Literature Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ENGL 202	Departmental Survey of English Literature 1.	3
ENGL 203	Departmental Survey of English Literature 2.	3
ENGL 311	Poetics.	3
ENGL 360	Literary Criticism.	3

Complementary Courses (24 credits)

24 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. At least 3 of the 24 credits must be devoted to a course on a Major Author as indicated under the rubrics dedicated to these offerings in each year's list of Complementary Courses on the Department of English website (<http://www.mcgill.ca/english>). In addition to the Advanced Study requirement, 3 of the remaining 18 Complementary Courses credits must be completed at the 500 level. A maximum of 9 of the 24 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfills for that academic year.

Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6-credits of honours essay:

Expand allContract all

Course	Title	Credits
ENGL 491D1	Honours Essay.	3
ENGL 491D2	Honours Essay.	3

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the Course Catalogue. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

Areas of English Literature

3 credits from one of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance.

Backgrounds of English Literature

Expand allContract all

Course	Title	Credits
ENGL 347	Great Writings of Europe 1.	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3

Old English

Expand allContract all

Course	Title	Credits
ENGL 342	Introduction to Old English.	3
ENGL 452	Studies in Old English.	3
ENGL 553	Old English Literature.	3

Medieval

Expand allContract all

Course	Title	Credits
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 456	Middle English.	3
ENGL 500	Middle English.	3

Renaissance

Expand allContract all

Course	Title	Credits
ENGL 305	Renaissance English Literature 1.	3
ENGL 307	Renaissance English Literature 2.	3

ENGL 308	English Renaissance Drama 1.	3
ENGL 315	Shakespeare.	3
ENGL 316	Milton.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 400	Earlier English Renaissance.	3
ENGL 401	Studies in the 17th Century.	3
ENGL 416	Studies in Shakespeare.	3
ENGL 501	16th Century.	3
ENGL 516	Shakespeare.	3

Areas of English Literature

3 credits from one of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

Expand allContract all

Course	Title	Credits
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 444	Studies in Women Authors.	3

18th Century

Expand allContract all

Course	Title	Credits
ENGL 301	Earlier 18th Century Novel.	3
ENGL 302	Restoration and 18th C. English Literature 1.	3
ENGL 304	Later Eighteenth Century Novel.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 403	Studies in the 18th Century.	3
ENGL 444	Studies in Women Authors.	3
ENGL 503	18th Century.	3

Romantic

Expand allContract all

Course	Title	Credits
ENGL 331	Literature Romantic Period 1.	3
ENGL 332	Literature Romantic Period 2.	3
ENGL 444	Studies in Women Authors.	3

Victorian

Expand allContract all

Course	Title	Credits
ENGL 329	English Novel: 19th Century 1.	3
ENGL 330	English Novel: 19th Century 2.	3
ENGL 334	Victorian Poetry.	3
ENGL 404	Studies in 19th Century Literature 1.	3
ENGL 405	Studies in 19th Century Literature 2.	3
ENGL 423	Studies in 19th Century Literature.	3
ENGL 444	Studies in Women Authors.	3
ENGL 504	19th Century.	3

19th Century American

Expand allContract all

Course	Title	Credits
ENGL 326	19th Century American Prose.	3
ENGL 422	Studies in 19th Century American Literature.	3
ENGL 444	Studies in Women Authors.	3

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary.

Early 20th Century

Expand allContract all

Course	Title	Credits
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 444	Studies in Women Authors.	3

Modernist

Expand allContract all

Course	Title	Credits
ENGL 327	Canadian Prose Fiction 1.	3
ENGL 328	Development of Canadian Poetry 1.	3
ENGL 335	The 20th Century Novel 1.	3
ENGL 361	Poetry of the 20th Century 1.	3
ENGL 414	Studies in 20th Century Literature 1.	3
ENGL 418	A Major Modernist Writer.	3
ENGL 444	Studies in Women Authors.	3
ENGL 505	20th Century.	3

Post-modernist

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

Contemporary

Expand allContract all

Course	Title	Credits
ENGL 295	21C and 20C Literature and Culture	3
ENGL 320	Postcolonial Literature.	3
ENGL 333	Development of Canadian Poetry 2.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 407	The 20th Century.	3
ENGL 408	The 20th Century.	3
ENGL 419	Studies in 20th Century Literature.	3
ENGL 421	African Literature.	3

ENGL 443 Contemporary Women's Fiction.

3

ENGL 444 Studies in Women Authors.

3

Theory, Criticism and Methods

3 credits of Theory, Criticism, and Methods courses from the complementary list or with the permission of your department adviser.

Expand allContract all

Course	Title	Credits
ENGL 317	Literary and Cultural Theory	3
ENGL 318	Literary and Cultural Methods	3
ENGL 319	Literary and Cultural Criticism	3
ENGL 322	Theories of the Text.	3
ENGL 346	Materiality and Sociology of Text.	3
ENGL 352	Theories of Difference.	3

Department Offerings

6 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

Medieval Studies Minor Concentration (B.A. & Sc.) (18 credits)**Offered by:** English (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18**Program Description**

The Minor Concentration in Medieval Studies facilitates undergraduate training in the interrelated branches of the discipline (e.g., history, literature, art history, languages, religion, philosophy), providing students with experience working in an inherently interdisciplinary field and a valuable credential to pursue graduate study in the field (in any area).

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
MDST 400	Interdisciplinary Seminar in Medieval Studies.	3

Complementary Courses (15 credits)

15 credits from the following list, of which only 9 credits may be taken in any one department. No more than 6 credits may be taken below the 300 level.

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
ARTH 314	The Medieval City.	3
ARTH 425	Arts of Medieval Spain.	3

English

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 306	Theatre History: Medieval and Early Modern.	3
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 342	Introduction to Old English. ¹	3
ENGL 348	Great Writings of Europe 2.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 356	Middle English.	3
ENGL 357	Chaucer.	3
ENGL 452	Studies in Old English.	3
ENGL 456	Middle English.	3
ENGL 500	Middle English.	3
ENGL 553	Old English Literature.	3

¹ When content relates to Medieval Studies.

History and Classical Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 319	The Scientific Revolution.	3
HIST 323	History and Sexuality 1.	3
HIST 356	Medicine in the Medieval West.	3
HIST 358	China's Middle Empires.	3
HIST 380	The Medieval Mediterranean .	3
HIST 401AA	Topics: Medieval Culture & Soc	3
HIST 567D1	Seminar: Medieval Medicine.	3
HIST 567D2	Seminar: Medieval Medicine.	3

Islamic Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 516	Medieval Islam, 13th-15th Century.	3

Jewish Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
JWST 261	History of Jewish Philosophy and Thought.	3
JWST 337	Jewish Philosophy and Thought 1.	3

Languages, Literatures, and Cultures

[Expand all](#)[Contract all](#)

Course	Title	Credits
ITAL 355	Dante and the Middle Ages.	3
ITAL 356	Medieval Discourses on Love.	3

Langue et Littérature Françaises

[Expand all](#)[Contract all](#)

Course	Title	Credits
FREN 455	La littérature médiévale 1.	¹ 3
FREN 456	La littérature médiévale 2.	3

Philosophy

[Expand all](#)[Contract all](#)

Course	Title	Credits
PHIL 344	Medieval and Renaissance Political Theory.	¹ 3
PHIL 356	Early Medieval Philosophy.	3

¹ If chosen, students may take either PHIL 344 or POLI 334.

Political Science

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 334	Western Political Theory 2.	¹ 3

¹ If chosen, students may take either POLI 334 or PHIL 344.

Religious Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
RELG 322	Church and Empire to 1300 .	3

World Cinemas Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: English (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
EAST 279	Introduction to Film History.	¹ 3
ENGL 277	Introduction to Film Studies.	¹ 3
LLCU 279	Introduction to Film History.	3

¹ Take either EAST 279 Introduction to Film History. or LLCU 279 Introduction to Film History..

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

Expand allContract all

Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
EAST 353	Approaches to Chinese Cinema.	3
EAST 361	Animation and New Media.	3
EAST 362	Japanese Cinema.	3
EAST 368	Asian Genre Cinemas.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 454	Topics: Chinese Cinema.	3
EAST 467	Topics: Japanese Cinema.	3
EAST 564	Structures of Modernity: Asia.	3
ENGL 279	Introduction to Film History.	3
ENGL 280	Introduction to Film as Mass Medium.	3
ENGL 350	Studies in the History of Film 1.	3
ENGL 351	Studies in the History of Film 2.	3
ENGL 354	Sexuality and Representation.	3
ENGL 363	Studies in the History of Film 3.	3
ENGL 366	Film Genre.	3
ENGL 374	Film Movement or Period.	3
ENGL 381	A Film-Maker 1.	3
ENGL 382	International Cinema 1.	3
ENGL 385AA	Film Adaptations of Shakespeare	3
ENGL 391AA	Spec Top:Cultural Studies 1	3
ENGL 393	Canadian Cinema.	3
ENGL 451	A Period in Cinema.	3
ENGL 476	Alternative Approaches to Media 1.	3
ENGL 479	Philosophy of Film.	3
ENGL 480	Studies in History of Film 1.	3
ENGL 481	A Film-Maker 2.	3
ENGL 482	International Cinema 2.	3
ENGL 484	Seminar in the Film.	3
ENGL 492	Image and Text.	3
ENGL 585	Cultural Studies: Film.	3
FILM 499	Internship: World Cinemas.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3

GERM 357	German Culture in European Context.	3
GERM 369	The German Novel.	3
GERM 370	Special Topics in German Film.	3
GERM 373	Weimar German Cinema.	3
HISP 340	Latin American Cinema.	3
HISP 341	Spanish Cinema.	3
HIST 435	Topics in South Asian History.	3
ITAL 329	Italian Cinematic Tradition.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 477	Italian Cinema and Video.	3
LLCU 200	Topics in Film.	3
LLCU 300	Cinema and the Visual.	3
MUHL 330	Music and Film.	3
RUSS 213	Introduction to Soviet Film.	3
RUSS 395	Soviet Cinema: Art and Politics.	3

Environment Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

This 18-credit Minor Concentration Environment is intended for Arts students in the multi-track system, Law and Management students. Students in Agricultural & Environmental Sciences, Engineering, and Science should complete the Minor Environment.

Advising Note

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of MSE core courses:

The core ENVR courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits	ENVR 201	Society, Environment and Sustainability.	3
ENVR 200	The Global Environment.	3	ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 201	Society, Environment and Sustainability.	3	ENVR 400	Environmental Thought.	3
ENVR 202	The Evolving Earth.	3	ENVR 421	Montreal: Environmental History and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
ENVR 400	Environmental Thought.	3	GEOG 210	Global Places and Peoples.	3

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in natural sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Adviser.

Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students. If in doubt, ask the Program Adviser.

Location Note

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

Expand allContract all

Course	Title	Credits	AGEC 231	Economic Systems of Agriculture.	3
AGEC 333	Resource Economics.	3	PHIL 221	Introduction to History and Philosophy of Science 2.	3
AGEC 430	Agriculture, Food and Resource Policy.	3	PHIL 230	Introduction to Moral Philosophy 1.	3
AGEC 442	Economics of International Agricultural Development.	3	PHIL 237	Contemporary Moral Issues.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3	PHIL 334	Ethical Theory.	3
ANTH 206	Environment and Culture.	3	PHIL 341	Philosophy of Science 1.	3
ANTH 212	Anthropology of Development.	3	PHIL 343	Biomedical Ethics.	3
ANTH 339	Ecological Anthropology.	3	PHIL 348	Philosophy of Law 1.	3
ANTH 418	Environment and Development.	3	POLI 212	Introduction to Comparative Politics - Europe/North America.	3
ANTH 512	Political Ecology.	3	POLI 227	Introduction to Comparative Politics - Global South.	3
ECON 205	An Introduction to Political Economy.	3	POLI 345	International Organizations.	3
ECON 225	Economics of the Environment.	3	POLI 350	Global Environmental Politics.	3
ECON 326	Ecological Economics.	3	POLI 412	Canadian Voting/Public Opinion.	3
ECON 347	Economics of Climate Change.	3	POLI 445	International Political Economy: Monetary Relations.	3
ECON 405	Natural Resource Economics.	3	PSYC 215	Social Psychology.	3
EDER 494	Human Rights and Ethics in Practice.	3	RELG 270	Religious Ethics and the Environment.	3
ENVB 437	Assessing Environmental Impact.	3	RELG 370	Religion and Human Rights.	3
			SOCI 222	Urban Sociology.	3
			SOCI 234	Population and Society.	3
			SOCI 235	Technology and Society.	3
			SOCI 254	Development and Underdevelopment.	3
			SOCI 307	Globalization.	3

SOCI 365	Health and Development.	3	EPSC 201	Understanding Planet Earth. ¹	3
SOCI 366	Neighborhoods and Inequality .	3	EPSC 233	Earth and Life Through Time	3
SOCI 386	Contemporary Social Movements.	3	EPSC 549	Hydrogeology.	3
URBP 201	Planning the 21st Century City.	3	ESYS 301	Earth System Modelling.	3
URBP 504	Planning for Active Transportation.	3	FDSC 230	Organic Chemistry.	4
URBP 506	Environmental Policy and Planning.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
URBP 530	Urban Infrastructure and Services in International Context .	3	GEOG 201	Introductory Geo-Information Science. ¹	3
URBP 551	Urban Design and Planning.	3	GEOG 205	Global Change: Past, Present and Future.	3
WCOM 314	Communicating Science.	3	GEOG 272	Earth's Changing Surface.	3
Natural Sciences and Technology					

Expand allContract all

Course	Title	Credits				
AGRI 340	Principles of Ecological Agriculture.	3	GEOG 322	Environmental Hydrology.	3	
ANSC 326	Fundamentals of Population Genetics.	3	GEOG 372	Running Water Environments.	3	
ATOC 214	Introduction: Physics of the Atmosphere.	3	GEOG 470	Wetlands.	3	
ATOC 215	Oceans, Weather and Climate.	3	GEOG 550	Historical Ecology Techniques. ¹	3	
BIOL 240	Monteregian Flora.	3	LSCI 230	Introductory Microbiology.	3	
BIOL 305	Animal Diversity.	3	MICR 331	Microbial Ecology.	3	
BIOL 308	Ecological Dynamics. ¹	3	MIME 320	Extraction of Energy Resources. ¹	3	
BIOL 310	Biodiversity and Ecosystems.	3	MIMM 211	Introductory Microbiology.	3	
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3	MIMM 214	Introductory Immunology: Elements of Immunity.	3	
BIOL 418	Freshwater Invertebrate Ecology.	3	MIMM 323	Microbial Physiology.	3	
BIOL 432	Limnology.	3	NRSC 333	Pollution and Bioremediation.	3	
BIOL 436	Evolution and Society. ¹	3	PARA 410	Environment and Infection.	3	
BIOL 465	Conservation Biology. ¹	3	PARA 515	Water, Health and Sanitation.	3	
BREE 217	Hydrology and Water Resources.	3	PHYS 228	Energy and the Environment.	3	
BREE 322	Management of Organic Residue	3	PLNT 304	Biology of Fungi.	3	
BREE 327	Bio-Environmental Engineering.	3	PLNT 305	Plant Pathology.	3	
BREE 518	Ecological Engineering.	3	PLNT 358	Flowering Plant Diversity.	3	
CHEM 212	Introductory Organic Chemistry 1.	4	PLNT 460	Plant Ecology.	3	
CHEM 281	Inorganic Chemistry 1.	3	SOIL 300	Geosystems.	3	
CIVE 225	Environmental Engineering. ¹	4	WILD 302	Fish Ecology.	3	
CIVE 323	Hydrology and Water Resources.	3	WILD 421	Wildlife Conservation. ¹	3	
CIVE 550	Water Resources Management. ¹	3	1 Note: you may take LSCI 230 Introductory Microbiology. or MIMM 211 Introductory Microbiology., but not both; you may take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science., but not both; you may take one of BREE 217 Hydrology and Water Resources., CIVE 323 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology.; you may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology., but not both; you may take BIOL 465 Conservation Biology. or WILD 421 Wildlife Conservation., but not both; you may take COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences., but not both; you may take EPSC 201 Understanding Planet Earth. or EPSC 233 Earth and Life Through Time, but not both.			
COMP 202	Foundations of Programming.	3				
COMP 204	Computer Programming for Life Sciences. ¹	3				
ENVB 210	The Biophysical Environment.	3				
ENVB 301	Meteorology.	3				
ENVB 305	Population and Community Ecology. ¹	3				
ENVB 410	Ecosystem Ecology.	3				
ENVB 415	Ecosystem Management.	3				
ENVB 529	GIS for Natural Resource Management.	3				
ENVR 200	The Global Environment.	3				
ENVR 202	The Evolving Earth.	3				
ENVR 422	Montreal Urban Sustainability Analysis.	3				

Environment Minor (B.Sc. (Ag.Env.Sc.) or B.Sc.) (18 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 18

Program Description

This 18-credit Minor Environment is intended for Faculty of Agricultural and Environmental Sciences students, and Faculty of Science students, but is open to students from other faculties as well, except Arts, Law, and Management. Students in Arts, Law, and Management should complete the Minor Concentration Environment.

Advising Note

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of Bieler School of Environment core courses:

The core ENVR courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown Campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald Campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course

List may be included with the permission of the Bieler School of Environment Program Adviser.

Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students). If in doubt, ask the Program Adviser.

Location Note

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald Campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

Expand allContract all

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ANTH 418	Environment and Development.	3
ANTH 512	Political Ecology.	3
ECON 205	An Introduction to Political Economy.	3
ECON 225	Economics of the Environment.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
EDER 494	Human Rights and Ethics in Practice.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 221	Environment and Health.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 301	Geography of Nunavut.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 403	Global Health and Environmental Change.	3

GEOG 408	Geography of Development.	3	ATOC 215	Oceans, Weather and Climate.	3
GEOG 423	Dilemmas of Development.	3	BIOL 240	Monteregian Flora.	3
GEOG 530	Global Land and Water Resources.	3	BIOL 305	Animal Diversity. ¹	3
HIST 249	Health and the Healer in Western History.	3	BIOL 308	Ecological Dynamics.	3
HIST 292	History and the Environment.	3	BIOL 310	Biodiversity and Ecosystems.	3
NRSC 221	Environment and Health.	3	BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3	BIOL 418	Freshwater Invertebrate Ecology.	3
PHIL 230	Introduction to Moral Philosophy 1.	3	BIOL 432	Limnology.	3
PHIL 237	Contemporary Moral Issues.	3	BIOL 436	Evolution and Society. ¹	3
PHIL 334	Ethical Theory.	3	BIOL 465	Conservation Biology.	3
PHIL 341	Philosophy of Science 1.	3	BREE 217	Hydrology and Water Resources.	3
PHIL 343	Biomedical Ethics.	3	BREE 322	Management of Organic Residue	3
PHIL 348	Philosophy of Law 1.	3	BREE 327	Bio-Environmental Engineering.	3
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	BREE 518	Ecological Engineering.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	CHEM 212	Introductory Organic Chemistry 1.	4
POLI 345	International Organizations.	3	CHEM 281	Inorganic Chemistry 1.	3
POLI 350	Global Environmental Politics.	3	CIVE 225	Environmental Engineering. ¹	4
POLI 412	Canadian Voting/Public Opinion.	3	CIVE 323	Hydrology and Water Resources.	3
POLI 445	International Political Economy: Monetary Relations.	3	CIVE 550	Water Resources Management. ¹	3
PSYC 215	Social Psychology.	3	COMP 202	Foundations of Programming.	3
RELG 270	Religious Ethics and the Environment.	3	COMP 204	Computer Programming for Life Sciences. ¹	3
RELG 370	Religion and Human Rights.	3	ENVB 210	The Biophysical Environment.	3
SOCI 222	Urban Sociology.	3	ENVB 301	Meteorology.	3
SOCI 234	Population and Society.	3	ENVB 305	Population and Community Ecology. ¹	3
SOCI 235	Technology and Society.	3	ENVB 410	Ecosystem Ecology.	3
SOCI 254	Development and Underdevelopment.	3	ENVB 415	Ecosystem Management.	3
SOCI 307	Globalization.	3	ENVB 529	GIS for Natural Resource Management. ¹	3
SOCI 365	Health and Development.	3	ENVR 200	The Global Environment.	3
SOCI 366	Neighborhoods and Inequality .	3	ENVR 202	The Evolving Earth.	3
SOCI 386	Contemporary Social Movements.	3	ENVR 422	Montreal Urban Sustainability Analysis.	3
URBP 201	Planning the 21st Century City.	3	EPSC 201	Understanding Planet Earth. ¹	3
URBP 504	Planning for Active Transportation.	3	EPSC 233	Earth and Life Through Time ¹	3
URBP 506	Environmental Policy and Planning.	3	EPSC 549	Hydrogeology.	3
URBP 530	Urban Infrastructure and Services in International Context .	3	ESYS 301	Earth System Modelling.	3
URBP 551	Urban Design and Planning.	3	FDSC 230	Organic Chemistry.	4
WCOM 314	Communicating Science.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
Natural Sciences and Technology					
Expand allContract all					
Course	Title	Credits	GEOG 201	Introductory Geo-Information Science. ¹	3
AGRI 340	Principles of Ecological Agriculture.	3	GEOG 205	Global Change: Past, Present and Future.	3
ANSC 326	Fundamentals of Population Genetics.	3	GEOG 272	Earth's Changing Surface.	3
ATOC 214	Introduction: Physics of the Atmosphere.	3	GEOG 308	Remote Sensing for Earth Observation.	3
			GEOG 321	Climatic Environments.	3
			GEOG 322	Environmental Hydrology. ¹	3
			GEOG 372	Running Water Environments.	3
			GEOG 470	Wetlands.	3
			GEOG 550	Historical Ecology Techniques.	3

LSCI 230	Introductory Microbiology. ¹	3	program and their minor or minor concentration. ENVR courses are considered courses in both Arts and Science, and so the credits are split between the two faculties for the purpose of this regulation.
MICR 331	Microbial Ecology.	3	
MIME 320	Extraction of Energy Resources.	3	
MIMM 211	Introductory Microbiology. ¹	3	
MIMM 214	Introductory Immunology: Elements of Immunity.	3	
MIMM 323	Microbial Physiology.	3	
NRSC 333	Pollution and Bioremediation.	3	
PARA 410	Environment and Infection.	3	
PARA 515	Water, Health and Sanitation.	3	
PHYS 228	Energy and the Environment.	3	
PLNT 304	Biology of Fungi.	3	
PLNT 305	Plant Pathology.	3	
PLNT 358	Flowering Plant Diversity.	3	
PLNT 460	Plant Ecology.	3	
SOIL 300	Geosystems.	3	
WILD 302	Fish Ecology.	3	
WILD 421	Wildlife Conservation. ¹	3	

¹ Note: you may take LSCI 230 Introductory Microbiology, or MIMM 211 Introductory Microbiology., but not both; you may take ENVB 529 GIS for Natural Resource Management, or GEOG 201 Introductory Geo-Information Science., but not both; you may take one of BREE 217 Hydrology and Water Resources., CIVE 323 Hydrology and Water Resources, or GEOG 322 Environmental Hydrology; you may take BIOL 308 Ecological Dynamics, or ENVB 305 Population and Community Ecology, but not both; you may take BIOL 465 Conservation Biology, or WILD 421 Wildlife Conservation., but not both; you make take COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences., but not both; you may take EPSC 201 Understanding Planet Earth, or EPSC 233 Earth and Life Through Time, but not both.

Environment Interfaculty Program (B.A. & Sc.) (54 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts and Science

Program credit weight: 54

Program Description

The B.A. & Sc.; Interfaculty Program in Environment focuses on the myriad of environmental problems faced by society today. The program offers a great degree of flexibility and can provide both a broad liberal arts/science training as well as specific and in-depth focus on particular areas of interest.

Program Requirements

- Students are required to take a maximum of 21 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses.
- Students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their interfaculty

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught on both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Complementary Courses (36 credits)

Senior Research Project

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6
GEOG 451	Research in Society and Development in Africa.	3

Statistics

One of:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

BIOL 334D1	Applied Tropical Ecology.	1.5
BIOL 334D2	Applied Tropical Ecology.	1.5
BIOL 335	Marine Mammals.	3
BIOL 553	Neotropical Environments.	3
GEOG 495	Field Studies - Physical Geography.	3
WILD 475	Desert Ecology.	3

Areas

30 credits from at least three of the following Areas. At least 6 credits must be at the 400 level or higher, selected either from these lists or in consultation with the Program Adviser.

Area 1: Population, Community, and Ecosystem Ecology

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
BIOL 432	Limnology.	3
BIOL 441	Biological Oceanography.	3
BIOL 540	Ecology of Species Invasions.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
ENVR 540	Ecology of Species Invasions.	3
PLNT 460	Plant Ecology.	3

¹ Note: You may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology..

Area 2: Biodiversity and Conservation

Expand allContract all

Course	Title	Credits
BIOL 305	Animal Diversity.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 427	Herpetology.	3
BIOL 465	Conservation Biology.	3
MICR 331	Microbial Ecology.	3
PLNT 358	Flowering Plant Diversity.	3
WILD 307	Natural History of Vertebrates.	3
WILD 350	Mammalogy.	3
WILD 420	Ornithology.	3

Area 3: Field Studies in Ecology and Conservation

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3

Area 4: Hydrology and Water Resources

* Note: If chosen, you may take only one of: GEOG 322 Environmental Hydrology., BREE 217 Hydrology and Water Resources., or CIVE 323 Hydrology and Water Resources..

** Note: If chosen, you may take EPSC 522 Advanced Environmental Hydrology. or GEOG 522 Advanced Environmental Hydrology..

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources.	3
CIVE 323	Hydrology and Water Resources.	3
EPSC 522	Advanced Environmental Hydrology.	3
EPSC 549	Hydrogeology.	3
GEOG 322	Environmental Hydrology.	3
GEOG 470	Wetlands.	3
GEOG 522	Advanced Environmental Hydrology.	3
GEOG 530	Global Land and Water Resources.	3

Area 5: Human Health

Expand allContract all

Course	Title	Credits
NUTR 307	Metabolism and Human Nutrition.	3
PARA 410	Environment and Infection.	3
PATH 300	Human Disease.	3
PHAR 303	Principles of Toxicology.	3

Area 6: Earth and Soil Sciences

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ATOC 341	Caribbean Climate and Weather.	3
EPSC 201	Understanding Planet Earth.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3

Area 7: Economics

Note: If chosen, you may take AGEC 200 Principles of Microeconomics. or ECON 208 Microeconomic Analysis and Applications..

Expand allContract all

Course	Title	Credits
AGED 200	Principles of Microeconomics.	3
AGED 333	Resource Economics.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 326	Ecological Economics.	3

ECON 347	Economics of Climate Change.	3	PHIL 237	Contemporary Moral Issues.	3
ECON 405	Natural Resource Economics.	3	PHIL 341	Philosophy of Science 1.	3
ECON 511	Energy, Economy and Environment.	3	PHIL 348	Philosophy of Law 1.	3
GEOG 216	Geography of the World Economy.	3	RELG 270	Religious Ethics and the Environment.	3
			RELG 370	Religion and Human Rights.	3

Area 8: Development and Underdevelopment

Expand all

Contract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 212	Anthropology of Development.	3
ANTH 418	Environment and Development.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 423	Dilemmas of Development.	3
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 445	International Political Economy: Monetary Relations.	3

Area 9: Cultures and People

Expand all

Contract all

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 339	Ecological Anthropology.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 210	Global Places and Peoples.	3
GEOG 498	Humans in Tropical Environments.	3
HIST 292	History and the Environment.	3
HIST 510	Environmental History of Latin America (Field).	3

Area 10: Human Ecology and Health

Expand all

Contract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
GEOG 303	Health Geography.	3
PHIL 343	Biomedical Ethics.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 309	Health and Illness.	3

Area 11: Spirituality, Philosophy, and Thought

Expand all

Contract all

Course	Title	Credits
ANTH 318	Globalization and Religion.	3
EDER 461	Society and Change.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3

Area 12: Environmental Management

Expand all

Contract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
COMS 360	Environmental Communication.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 404	Environmental Management 2.	3
NRSC 333	Pollution and Bioremediation.	3
POLI 350	Global Environmental Politics.	3
WCOM 314	Communicating Science.	3
WILD 401	Fisheries and Wildlife Management.	3
WILD 421	Wildlife Conservation.	3
WOOD 441	Integrated Forest Management.	3

Environment Honours (B.A. & Sc.)

Offered by: Bieler School of Environment**Degree:** Bachelor of Arts and Science**Program credit weight:** 60

Program Description

This program is open only to students in the B.A. & Sc. Interfaculty Program Environment. To be eligible for Honours, students must satisfy the requirements set by their B.A. & Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 and ENVR 495D2).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. B.A. & Sc. students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their Honours program and their Minor concentration or Minor program. For a list of available Minor concentrations or Minor programs, see "Overview of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the coursework (54 credits) for the Interfaculty Program in Environment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the Bieler School of Environment Program Adviser.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Honours Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research. ¹	3
ENVR 495D2	Honours Research. ¹	3
ENVR 495N1	Honours Research. ¹	3
ENVR 495N2	Honours Research. ¹	3

¹ Note: You take either ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Field Studies Minor (B.Sc.) (18 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester, the Barbados Field Study Semester, the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, McGill Arctic Field Study Semester, or the Panama Field Study Semester may complete the 18-credit Minor in Field Studies.

The Minor consists of the 15 credits of a field study semester plus three additional complementary credits chosen by the student in

consultation with their departmental adviser and/or the Field Study Minor adviser.

For students in the B.Sc. Liberal Program, the Field Studies Minor can serve as the breadth component.

Program descriptions for each of the field study semesters are provided below.

Note: The field study semesters are not degree programs. Credits may be counted toward McGill degrees with the permission of program advisers. Students who complete a field study semester may consult the Field Study Minor adviser about completing the Minor program as part of their McGill degree.

Africa Field Study Semester (15 credits)

The Africa Field Study Semester (AFSS) is run through McGill's Canadian Field Study in Africa Program (CFSIA).

The AFSS provides one term of integrated field study in East Africa, with emphasis on environmental conservation, culture change, and sustainable development. Students investigate challenges of sustaining biological diversity and social justice in African environments subject to cultural change, economic development, and environmental stress. Cultural and ecological variation is examined in highland, montane, rangeland, desert, riverine, salt- and fresh-water lake, coastal, and urban settings.

Africa Field Study Semester - Required Courses

6 credits

Students select one course titled "Research in Society and Development in Africa" and one course titled "Research in Ecology and Development in Africa" from the courses below.

Expand allContract all

Course	Title	Credits
ANTH 451	Research in Society and Development in Africa.	3
BIOL 451	Research in Ecology and Development in Africa.	3
GEOG 451	Research in Society and Development in Africa.	3

Africa Field Study Semester - Complementary Courses

9 credits from:

Expand allContract all

Course	Title	Credits
ANTH 416	Environment/Development: Africa.	3
BIOL 428	Biological Diversity in Africa.	3
BIOL 429	East African Ecology.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 423	Dilemmas of Development.	3
HIST 498	Independent Research.	3

REDM 405	Natural History of East Africa. ¹	3	AEBI 425	Tropical Energy and Food.	3
WILD 420	Ornithology.	3	AEBI 427	Barbados Interdisciplinary Project.	6

¹ Courses are offered on a rotational basis, at least 3 credits annually.

Barbados Field Study Semester (15 credits)

The Barbados Field Study Semester (BFSS), offered in partnership with the University of the West Indies, offers a unique opportunity to study at McGill University's campus in the tropics, the Bellairs Research Institute in Barbados. The focus of this field study semester is the study of sustainability science, with emphasis on the Caribbean, which includes: a different climate and culture, field research, and conducting an applied research project. Project work is conducted with local partners and focuses on sustainability in Barbados.

Barbados Field Study Semester - Required Courses

15 credits

Expand allContract all

Course	Title	Credits
ATOC 341	Caribbean Climate and Weather.	3
BIOL 343	Biodiversity in the Caribbean.	3
FSCI 444	Barbados Research Project.	6
GEOG 340	Sustainability in the Caribbean.	3

Barbados Interdisciplinary Tropical Studies Field Semester (15 credits)

The Barbados Interdisciplinary Tropical Studies (BITS) Field Semester is an activity-filled, hands-on experience for students with an interest in international studies with a Caribbean flavour. The focus is on sustainable agri-food, nutrition, and energy production on a tropical island with a tourist-based economy. It is offered annually (in the Summer). It consists of two 2-hour orientation sessions conducted on the Macdonald campus and at the Bellairs Research Institute in Barbados, followed by three 3-credit and one 6-credit project courses at Bellairs Research Institute. This program integrates intensive course work with group project work and contributes to the formation of professionals with planning, managing, decision-making, and communication skills. The program addresses a global need for experienced professionals capable of interacting with various levels of government, non-governmental organizations, and the private sector. BITS welcomes applications from senior undergraduate students from across the University.

Barbados Interdisciplinary Tropical Studies Field Semester - Required Courses

15 credits

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AEBI 423	Sustainable Land Use.	3

Panama Field Study Semester (15 credits)

This program is offered in Panama in partnership with the Smithsonian Tropical Research Institute (STRI).

Hands-on experience is gained through research projects organized around multidisciplinary environmental issues. The nature of these projects will centre on practical environmental problems/questions important for Panama. Students will form teams that will work with Panamanian institutions (NGO, governmental, or research).

There is a one- or two-day period of transition and 13 weeks of course attendance in Panama. Field trips will be integrated into each of the courses offered.

Panama Field Study Semester - Required Courses

9 credits

Expand allContract all

Course	Title	Credits
BIOL 553	Neotropical Environments.	3
ENVR 451	Research in Panama.	6

Panama Field Study Semester - Complementary Courses

6 credits

Complementary courses change from year to year. Students will register for the 6 credits offered the Winter of their participation in the field study semester.

First Winter semester complementary courses:

Expand allContract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
GEOG 498	Humans in Tropical Environments.	3

Second Winter semester complementary courses:

Expand allContract all

Course	Title	Credits
GEOG 404	Environmental Management 2.	3
HIST 510	Environmental History of Latin America (Field).	3

McGill Arctic Field Study Semester Required Courses (15 credits)

9 credits

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ATOC 373	Arctic Climate and Climate Change.	3	GSFS 301	Current Topics 1.	3
EPSC 373	Arctic Geology.	3	GSFS 302	Current Topics 2.	3
GEOG 373	Arctic Geomorphology.	3	GSFS 303	Gender and Disability.	3
and 6 credits from			GSFS 304	Postcolonial Feminist Theories.	3
Expand allContract all			GSFS 305	Critical Race and Social Justice Theories.	3
Course	Title	Credits	GSFS 306	Queer Theory.	3
ATOC 473	Arctic Field Research.	6	GSFS 307	Indigenous Feminisms.	3
EPSC 473	Arctic Field Research.	6	GSFS 308	Sex and Gender Minority Cultures.	3
GEOG 473	Arctic Field Research.	6	GSFS 401	Special Topics 1.	3
			GSFS 402	Special Topics 2.	3
			GSFS 403	Feminisms and the Law.	3
			GSFS 404	Politics of Identity.	3
			GSFS 405	Social Justice and Activism.	3
			GSFS 406	Trans*Feminisms.	3
			GSFS 407	Sexuality and Gender: New Directions.	3

Minor Field Studies - Complementary Course

In consultation with their departmental adviser and/or the Field Study Minor adviser, students who have completed one of the field study semesters described above may select a 3-credit complementary course to complete the requirements for the Minor and ask for it to be added to their academic records.

Gender, Sexuality, Feminist, & Social Justice Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships.

Complementary Courses (18 credits)

3 credits from the following:

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3

3 credits Gender, Sexuality Feminist, and Social Justice Studies (GSFS) from the following:

Expand allContract all

Credits may count towards only one program requirement.

12 credits from the following:

Minimum of 6 credits must be at the 300 level or higher.
Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 3 transfer credits may be accepted from approved exchange programs subject to University approval.

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 327	Anthropology of South Asia. ¹	3
ANTH 381	Special Topic 2.	3
ANTH 407	Anthropology of the Body.	3
ANTH 413	Gender in Archaeology. ¹	3
ANTH 480	Special Topic 5. ¹	3
ANTH 555	Advanced Topics in Ethnology. ¹	3
ARCH 533	New Approaches to Architectural History. ¹	3
ARTH 205	Introduction to Modern Art. ¹	3
ARTH 353	Selected Topics in Art History 1. ¹	3
ARTH 354	Selected Topics Art History 2. ¹	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3
ARTH 440	The Body and Visual Culture. ¹	3
CANS 405	Canadian Studies Seminar 5.	3
CLAS 308	Gender in the Ancient World.	3
COMS 310	Media and Feminist Studies. ¹	3
COMS 400	Critical Theory Seminar. ¹	3
COMS 411	Disability, Technology and Communication. ¹	3
COMS 490	Special Topics in History and Theory of Media. ¹	3

COMS 492	Power, Difference and Justice. ¹	3	GSFS 499	GSFS Internship. ¹	3
COMS 541	Cultural Industries. ¹	3	HISP 340	Latin American Cinema.	3
EAST 313	Current Topics: Korean Studies 1. ¹	3	HISP 358	Gender and Textualities.	3
EAST 350	Gender and Sexuality in Chinese Literature.	3	HIST 201	Modern African History. ¹	3
EAST 351	Women Writers of China.	3	HIST 323	History and Sexuality 1.	3
EAST 369	Gender and Sexuality in Asian Media.	3	HIST 343	Women in Post-Confederation Canada.	3
EAST 370	History of Sexuality in Japan. ¹	3	HIST 344	The Chinese Family in History.	3
EAST 453	Topics: Chinese Literature.	3	HIST 347	History and Sexuality 2.	3
EDPC 503	Intersectional Relationships and Sexualities.	3	HIST 354	Women in Europe 1700-2000.	3
EDPE 515	Gender Identity Development.	3	HIST 380	The Medieval Mediterranean. ¹	3
ENGL 275	Introduction to Cultural Studies.	3	HIST 382	History of South Africa.	3
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 408	Selected Topics in Indigenous History .	3
ENGL 320	Postcolonial Literature.	3	HIST 412	Women and Gender in Modern Britain.	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3	HIST 420	Gender and Sexuality in Modern China.	3
ENGL 388	Studies in Popular Culture. ¹	3	HIST 424	Gender, Sexuality and Medicine.	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3	HIST 429AA	Topics: Gender/Feminist Histories.	3
ENGL 418	A Major Modernist Writer. ¹	3	HIST 433	British Queer History.	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3	HIST 525	Women, Work and Family in Global History.	3
ENGL 443	Contemporary Women's Fiction.	3	HIST 526	Women and War.	3
ENGL 444	Studies in Women Authors. ¹	3	HSEL 308	Issues in Women's Health.	3
ENGL 489	Culture and Critical Theory 1. ¹	3	HSEL 309	Women's Reproductive Health.	3
ENGL 516	Shakespeare. ¹	3	INDG 200	Introduction to Indigenous Studies.	3
GEOG 331	Urban Social Geography. ¹	3	INDG 401	Interdisciplinary Seminar in Indigenous Studies. ¹	3
GEOG 507	Advanced Social Geography. ¹	3	ISLA 310	Women in Islam.	0-3
GERM 364	Gender and Society in German Literature and Culture.	3	ISLA 375	Sufi Women	3
GSFS 200	Feminist and Social Justice Studies.	3	ISLA 585	Arab Women's Literature.	3
GSFS 250	Sexual and Gender Diversity Studies.	3	ITAL 375	Cinema and Society in Modern Italy. ¹	3
GSFS 300	Research Inquiry in GSFS.	3	ITAL 383	Women's Writing since 1880. ¹	3
GSFS 301	Current Topics 1.	3	ITAL 477	Italian Cinema and Video.	3
GSFS 302	Current Topics 2.	3	MUHL 250	Women Making Music.	3
GSFS 303	Gender and Disability.	3	MUHL 299	Music and Queer Identity.	3
GSFS 304	Postcolonial Feminist Theories.	3	PHIL 242	Introduction to Feminist Theory.	3
GSFS 305	Critical Race and Social Justice Theories.	3	PHIL 327	Philosophy of Race.	3
GSFS 306	Queer Theory.	3	PHIL 442	Topics in Feminist Theory.	3
GSFS 307	Indigenous Feminisms.	3	PHIL 446	Current Issues in Political Philosophy. ¹	3
GSFS 308	Sex and Gender Minority Cultures.	3	POLI 348	Gender and Canadian Politics.	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3	POLI 366	Topics in Political Theory 1. ¹	3
GSFS 401	Special Topics 1.	3	POLI 422	Advanced Topics in Comparative Politics 1. ¹	3
GSFS 402	Special Topics 2.	3	POLI 423	Politics of Ethno-Nationalism. ¹	3
GSFS 403	Feminisms and the Law.	3	POLI 432	Advanced Topics in Comparative Politics 2. ¹	3
GSFS 404	Politics of Identity.	3	POLI 444	Topics in International Politics 2. ¹	3
GSFS 405	Social Justice and Activism.	3	PSYC 436	Human Sexuality and Its Problems.	3
GSFS 406	Trans*Feminisms.	3	RELG 271	Religion and Sexuality.	3
GSFS 407	Sexuality and Gender: New Directions.	3	RELG 336	Contemporary Theological Issues. ¹	3
GSFS 450	Independent Reading and Research.	3	RELG 338	Women and the Christian Tradition.	3

RELG 372	Hindu Goddesses.	3	Degree Requirements – B.A. students
RELG 399	Christian Spirituality. ¹	3	To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.
SOCI 247	Family and Modern Society.	3	
SOCI 270	Sociology of Gender.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
SOCI 321	Gender and Work.	3	
SOCI 370	Sociology: Gender and Development.	3	
SOCI 386	Contemporary Social Movements.	3	Degree Requirements – B.A. & Sc. students
SOCI 489	Gender, Deviance and Social Control.	3	<i>This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.</i>
SOCI 519	Gender and Globalization.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
SOCI 530	Sex and Gender.	3	
SOCI 535	Sociology of the Family.	3	

¹ Note: Course counts toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

Gender, Sexuality, Feminist, & Social Justice Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts, Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Major Concentration consists of required GSFS courses that allow for an immersion into this area of study, and complementary courses from a range of departments, disciplines, and faculties. Students must see an adviser in Gender, Sexuality, Feminist, and Social Justice Studies at a minimum upon declaring the GSFS Major Concentration and prior to selecting courses for the final year of study.

Students are advised to take GSFS 200 Feminist and Social Justice Studies, and GSFS 250 Sexual and Gender Diversity Studies, in their first year in the program, GSFS 300 Research Inquiry in GSFS, in their second year of the program, and GSFS 400 Capstone: Engaging Fields of GSFS, in their final year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 400	Capstone: Engaging Fields of GSFS.	3

Complementary Courses (24 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3

GSFS 304	Postcolonial Feminist Theories.	3	ENGL 275	Introduction to Cultural Studies.	3
GSFS 305	Critical Race and Social Justice Theories.	3	ENGL 290	Postcolonial and World Literatures in English.	3
GSFS 306	Queer Theory.	3	ENGL 320	Postcolonial Literature.	3
GSFS 307	Indigenous Feminisms.	3	ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3
GSFS 308	Sex and Gender Minority Cultures.	3	ENGL 388	Studies in Popular Culture. ¹	3
GSFS 401	Special Topics 1.	3	ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3
GSFS 402	Special Topics 2.	3	ENGL 418	A Major Modernist Writer. ¹	3
GSFS 403	Feminisms and the Law.	3	ENGL 440	First Nations and Inuit Literature and Media. ¹	3
GSFS 404	Politics of Identity.	3	ENGL 443	Contemporary Women's Fiction.	3
GSFS 405	Social Justice and Activism.	3	ENGL 444	Studies in Women Authors. ¹	3
GSFS 406	Trans*Feminisms.	3	ENGL 489	Culture and Critical Theory 1. ¹	3
GSFS 407	Sexuality and Gender: New Directions.	3	ENGL 516	Shakespeare. ¹	3
Credits may count towards only one program requirement.					
15 credits from the following:					
Expand allContract all					
Course	Title	Credits			
ANTH 227	Medical Anthropology.	3	GSFS 200	Feminist and Social Justice Studies.	3
ANTH 327	Anthropology of South Asia. ¹	3	GSFS 250	Sexual and Gender Diversity Studies.	3
ANTH 381	Special Topic 2.	3	GSFS 300	Research Inquiry in GSFS.	3
ANTH 407	Anthropology of the Body.	3	GSFS 301	Current Topics 1.	3
ANTH 413	Gender in Archaeology. ¹	3	GSFS 302	Current Topics 2.	3
ANTH 480	Special Topic 5.	3	GSFS 303	Gender and Disability.	3
ANTH 555	Advanced Topics in Ethnology. ¹	3	GSFS 304	Postcolonial Feminist Theories.	3
ARCH 533	New Approaches to Architectural History. ¹	3	GSFS 305	Critical Race and Social Justice Theories.	3
ARTH 205	Introduction to Modern Art.	3	GSFS 306	Queer Theory.	3
ARTH 353	Selected Topics in Art History 1. ¹	3	GSFS 307	Indigenous Feminisms.	3
ARTH 354	Selected Topics Art History 2.	3	GSFS 308	Sex and Gender Minority Cultures.	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3	GSFS 400	Capstone: Engaging Fields of GSFS.	3
ARTH 440	The Body and Visual Culture. ¹	3	GSFS 401	Special Topics 1.	3
CANS 405	Canadian Studies Seminar 5.	3	GSFS 402	Special Topics 2.	3
CLAS 308	Gender in the Ancient World.	3	GSFS 403	Feminisms and the Law.	3
COMS 310	Media and Feminist Studies. ¹	3	GSFS 404	Politics of Identity.	3
COMS 400	Critical Theory Seminar.	3	GSFS 405	Social Justice and Activism.	3
COMS 411	Disability, Technology and Communication. ¹	3	GSFS 406	Trans*Feminisms.	3
COMS 490	Special Topics in History and Theory of Media. ¹	3	GSFS 407	Sexuality and Gender: New Directions.	3
COMS 492	Power, Difference and Justice. ¹	3	GSFS 450	Independent Reading and Research.	3
COMS 541	Cultural Industries. ¹	3	GSFS 499	GSFS Internship.	3
EAST 313	Current Topics: Korean Studies 1.	3	HISP 340	Latin American Cinema. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3	HISP 358	Gender and Textualities. ¹	3
EAST 351	Women Writers of China.	3	HIST 201	Modern African History.	3
EAST 369	Gender and Sexuality in Asian Media.	3	HIST 323	History and Sexuality 1.	3
EAST 370	History of Sexuality in Japan. ¹	3	HIST 343	Women in Post-Confederation Canada.	3
EAST 453	Topics: Chinese Literature.	3	HIST 344	The Chinese Family in History.	3
EDPC 503	Intersectional Relationships and Sexualities.	3	HIST 347	History and Sexuality 2.	3
EDPE 515	Gender Identity Development.	3	HIST 354	Women in Europe 1700-2000.	3

15 credits from the following:

Expand all

Contract all

HIST 380	The Medieval Mediterranean . ¹	3	
HIST 382	History of South Africa.	3	
HIST 408	Selected Topics in Indigenous History .	3	
HIST 412	Women and Gender in Modern Britain.	3	
HIST 420	Gender and Sexuality in Modern China.	3	
HIST 424	Gender, Sexuality and Medicine.	3	
HIST 433	British Queer History.	3	
HIST 525	Women, Work and Family in Global History.	3	
HIST 526	Women and War.	3	
HSEL 308	Issues in Women's Health.	3	
HSEL 309	Women's Reproductive Health.	3	
INDG 401	Interdisciplinary Seminar in Indigenous Studies. ¹	3	
ISLA 310	Women in Islam.	0-3	
ISLA 375	Sufi Women	3	
ISLA 585	Arab Women's Literature.	3	
ITAL 375	Cinema and Society in Modern Italy. ¹	3	
ITAL 383	Women's Writing since 1880. ¹	3	
ITAL 477	Italian Cinema and Video.	3	
MUHL 250	Women Making Music.	3	
MUHL 299	Music and Queer Identity.	3	
PHIL 242	Introduction to Feminist Theory.	3	
PHIL 442	Topics in Feminist Theory.	3	
PHIL 446	Current Issues in Political Philosophy. ¹	3	
POLI 366	Topics in Political Theory 1. ¹	3	
POLI 422	Advanced Topics in Comparative Politics 1. ¹	3	
POLI 423	Politics of Ethno-Nationalism.	3	
POLI 432	Advanced Topics in Comparative Politics 2. ¹	3	
POLI 444	Topics in International Politics 2. ¹	3	
PSYC 436	Human Sexuality and Its Problems. ¹	3	
RELG 336	Contemporary Theological Issues.	3	
RELG 338	Women and the Christian Tradition.	3	
RELG 372	Hindu Goddesses.	3	
RELG 399	Christian Spirituality. ¹	3	
SOCI 247	Family and Modern Society.	3	
SOCI 270	Sociology of Gender.	3	
SOCI 321	Gender and Work.	3	
SOCI 370	Sociology: Gender and Development.	3	
SOCI 386	Contemporary Social Movements.	3	
SOCI 489	Gender, Deviance and Social Control.	3	
SOCI 519	Gender and Globalization.	3	
SOCI 530	Sex and Gender.	3	
SOCI 535	Sociology of the Family.	3	

¹ Note: Course counts toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least

two of the following themes: gender, sexuality, feminism, and social justice.

Gender, Sexuality, Feminist, & Social Justice Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Inst for Gender, Sex & Fem St (Faculty of Arts)

Degree: Bachelor of Arts, Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Major Concentration consists of required GSFS courses that allow for an immersion into this area of study, and complementary courses from a range of departments, disciplines, and faculties. Students must see an adviser in Gender, Sexuality, Feminist, and Social Justice Studies at a minimum upon declaring the GSFS Major Concentration and prior to selecting courses for the final year of study.

Students are advised to take GSFS 200 Feminist and Social Justice Studies. and GSFS 250 Sexual and Gender Diversity Studies. in their first year in the program, GSFS 300 Research Inquiry in GSFS. in their second year of the program, and GSFS 400 Capstone: Engaging Fields of GSFS. in their final year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
GSFS 200	Feminist and Social Justice Studies.	3
GSFS 250	Sexual and Gender Diversity Studies.	3
GSFS 300	Research Inquiry in GSFS.	3
GSFS 495D1	Honours/Joint Honours Colloquium.	1.5
GSFS 495D2	Honours/Joint Honours Colloquium.	1.5
GSFS 497D1	Joint Honours Thesis.	1.5
GSFS 497D2	Joint Honours Thesis.	1.5

Complementary Courses (21 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

12 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

Expand allContract all

Course	Title	Credits
GSFS 301	Current Topics 1.	3
GSFS 302	Current Topics 2.	3
GSFS 303	Gender and Disability.	3
GSFS 304	Postcolonial Feminist Theories.	3
GSFS 305	Critical Race and Social Justice Theories.	3
GSFS 306	Queer Theory.	3
GSFS 307	Indigenous Feminisms.	3
GSFS 308	Sex and Gender Minority Cultures.	3
GSFS 401	Special Topics 1.	3
GSFS 402	Special Topics 2.	3
GSFS 403	Feminisms and the Law.	3
GSFS 404	Politics of Identity.	3
GSFS 405	Social Justice and Activism.	3

GSFS 406	Trans*Feminisms.	3
GSFS 407	Sexuality and Gender: New Directions.	3

Credits may count towards only one program requirement.

12 credits from the following:

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 327	Anthropology of South Asia. ¹	3
ANTH 381	Special Topic 2.	3
ANTH 407	Anthropology of the Body.	3
ANTH 413	Gender in Archaeology. ¹	3
ANTH 480	Special Topic 5.	3
ANTH 555	Advanced Topics in Ethnology. ¹	3
ARCH 533	New Approaches to Architectural History. ¹	3
ARTH 205	Introduction to Modern Art.	3
ARTH 353	Selected Topics in Art History 1. ¹	3
ARTH 354	Selected Topics Art History 2.	3
ARTH 421	Selected Topics in Art and Architecture 2. ¹	3
ARTH 440	The Body and Visual Culture. ¹	3
CANS 405	Canadian Studies Seminar 5.	3
CLAS 308	Gender in the Ancient World.	3
COMS 310	Media and Feminist Studies. ¹	3
COMS 400	Critical Theory Seminar.	3
COMS 411	Disability, Technology and Communication. ¹	3
COMS 490	Special Topics in History and Theory of Media. ¹	3
COMS 492	Power, Difference and Justice. ¹	3
COMS 541	Cultural Industries.	3
EAST 313	Current Topics: Korean Studies 1. ¹	3
EAST 350	Gender and Sexuality in Chinese Literature.	3
EAST 351	Women Writers of China.	3
EAST 369	Gender and Sexuality in Asian Media.	3
EAST 370	History of Sexuality in Japan. ¹	3
EAST 453	Topics: Chinese Literature. ¹	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPE 515	Gender Identity Development.	3
ENGL 275	Introduction to Cultural Studies.	3
ENGL 290	Postcolonial and World Literatures in English.	3
ENGL 320	Postcolonial Literature.	3
ENGL 371	Theatre History: 19th to 21st Centuries. ¹	3
ENGL 388	Studies in Popular Culture. ¹	3
ENGL 413	Special Topics in Canadian Drama and Theatre. ¹	3
ENGL 418	A Major Modernist Writer. ¹	3
ENGL 440	First Nations and Inuit Literature and Media. ¹	3
ENGL 443	Contemporary Women's Fiction.	3
ENGL 444	Studies in Women Authors.	3

ENGL 489	Culture and Critical Theory 1. ¹	3	HSEL 308	Issues in Women's Health.	3	
ENGL 516	Shakespeare. ¹	3	HSEL 309	Women's Reproductive Health.	3	
GEOG 331	Urban Social Geography. ¹	3	INDG 401	Interdisciplinary Seminar in Indigenous Studies.	3	
GEOG 507	Advanced Social Geography. ¹	3	ISLA 310	Women in Islam.	0-3	
GERM 364	Gender and Society in German Literature and Culture.	3	ISLA 375	Sufi Women	3	
GSFS 200	Feminist and Social Justice Studies.	3	ISLA 585	Arab Women's Literature.	3	
GSFS 250	Sexual and Gender Diversity Studies.	3	ITAL 375	Cinema and Society in Modern Italy. ¹	3	
GSFS 300	Research Inquiry in GSFS.	3	ITAL 383	Women's Writing since 1880. ¹	3	
GSFS 301	Current Topics 1.	3	ITAL 477	Italian Cinema and Video.	3	
GSFS 302	Current Topics 2.	3	MUHL 250	Women Making Music.	3	
GSFS 303	Gender and Disability.	3	PHIL 242	Introduction to Feminist Theory.	3	
GSFS 304	Postcolonial Feminist Theories.	3	PHIL 442	Topics in Feminist Theory.	3	
GSFS 305	Critical Race and Social Justice Theories.	3	PHIL 446	Current Issues in Political Philosophy. ¹	3	
GSFS 306	Queer Theory.	3	POLI 366	Topics in Political Theory 1. ¹	3	
GSFS 307	Indigenous Feminisms.	3	POLI 422	Advanced Topics in Comparative Politics 1. ¹	3	
GSFS 308	Sex and Gender Minority Cultures.	3	POLI 423	Politics of Ethno-Nationalism. ¹	3	
GSFS 400	Capstone: Engaging Fields of GSFS.	3	POLI 432	Advanced Topics in Comparative Politics 2. ¹	3	
GSFS 401	Special Topics 1.	3	POLI 444	Topics in International Politics 2. ¹	3	
GSFS 402	Special Topics 2.	3	PSYC 436	Human Sexuality and Its Problems. ¹	3	
GSFS 403	Feminisms and the Law.	3	RELG 336	Contemporary Theological Issues.	3	
GSFS 404	Politics of Identity.	3	RELG 338	Women and the Christian Tradition.	3	
GSFS 405	Social Justice and Activism.	3	RELG 372	Hindu Goddesses. ¹	3	
GSFS 406	Trans*Feminisms.	3	RELG 399	Christian Spirituality. ¹	3	
GSFS 407	Sexuality and Gender: New Directions.	3	SOCI 247	Family and Modern Society.	3	
GSFS 450	Independent Reading and Research.	3	SOCI 270	Sociology of Gender.	3	
GSFS 499	GSFS Internship. ¹	3	SOCI 321	Gender and Work.	3	
HISP 340	Latin American Cinema. ¹	3	SOCI 370	Sociology: Gender and Development.	3	
HISP 358	Gender and Textualities. ¹	3	SOCI 386	Contemporary Social Movements.	3	
HIST 201	Modern African History.	3	SOCI 489	Gender, Deviance and Social Control.	3	
HIST 323	History and Sexuality 1.	3	SOCI 519	Gender and Globalization.	3	
HIST 343	Women in Post-Confederation Canada.	3	SOCI 530	Sex and Gender.	3	
HIST 344	The Chinese Family in History.	3	SOCI 535	Sociology of the Family.	3	
HIST 347	History and Sexuality 2.	3	¹ Note: Course is acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.			
HIST 354	Women in Europe 1700-2000.	3				
HIST 380	The Medieval Mediterranean. ¹	3				
HIST 382	History of South Africa. ¹	3				
HIST 408	Selected Topics in Indigenous History .	3				
HIST 412	Women and Gender in Modern Britain.	3				
HIST 420	Gender and Sexuality in Modern China.	3				
HIST 424	Gender, Sexuality and Medicine.	3				
HIST 429AA	Topics: Gender/Feminist Histories.	3				
HIST 433	British Queer History.	3				
HIST 525	Women, Work and Family in Global History.	3				
HIST 526	Women and War.	3				

Geography Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.; Minor Concentration in Geography focuses on the interactions among people, places, and the environment, and is an

excellent complement to many majors. It includes coursework in methodological techniques, human, and/or physical Geography. This Minor Concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Studies).

Required (3 credits)

Expand allContract all		
Course	Title	Credits
GEOG 216	Geography of the World Economy.	3

Complementary Courses (15 credits)

6 credits selected from:

Expand allContract all		
Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 203	Environmental Systems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 272	Earth's Changing Surface.	3

9 credits from Geography (GEOG) courses at the 300 level or above.

Geography (Urban Studies) Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This interdisciplinary program introduces students in the Faculty of Arts to a range of urban dynamics and the challenges facing contemporary cities around the world. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

Required (3 credits)

Expand allContract all		
Course	Title	Credits
GEOG 217	Cities in the Modern World.	3

Complementary Courses (15 credits)

15 credits selected from the following lists. At least 9 credits must be completed at the 300-level or above:

Group A

6-9 credits selected from:

Expand allContract all		
Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 314	Geospatial Analysis.	3
GEOG 315	Urban Transportation Geography.	3
GEOG 316	Political Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 331	Urban Social Geography.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 417	Urban Geography.	3
GEOG 418	Geographies of Race.	3
GEOG 420	Memory, Place, and Power.	3

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but courses at the 500-level may not be taken before U3.

Expand allContract all		
Course	Title	Credits
ARCH 528	History of Housing.	3

Art History and Communication Studies

Expand allContract all		
Course	Title	Credits
ARTH 204	Introduction to Medieval Art and Architecture.	3
COMS 425	Urban Culture and Everyday Life.	3

Civil Engineering

Expand allContract all		
Course	Title	Credits
CIVE 540	Urban Transportation Planning.	3

History

Expand allContract all		
Course	Title	Credits
HIST 353	History of Montreal.	3
HIST 397	Canada: Ethnicity, Migration.	3

Islamic Studies

Expand allContract all		
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Course	Title	Credits	Program Description
ISLA 311	History of the City-Islamic World	3	The Minor Concentration in GIS and Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.
ISLA 395	Melancholic Migrants	3	
Management			
Expand allContract all			
Course	Title	Credits	Required Courses (6 credits)
FINE 445	Real Estate Finance.	3	Expand allContract all
Political Science			
Expand allContract all			
Course	Title	Credits	Course Title Credits
POLI 318	Comparative Local Government.	3	GEOG 201 Introductory Geo-Information Science. 3
POLI 321	Issues: Canadian Public Policy.	3	GEOG 314 Geospatial Analysis. 3
Quebec Studies			
Expand allContract all			
Course	Title	Credits	3 credits selected from:
QCST 200	Introduction to the Study of Quebec.	0-3	Expand allContract all
Sociology	Title	Credits	Course Title Credits
Expand allContract all			
SOCI 222	Urban Sociology.	3	COMP 202 Foundations of Programming. 3
SOCI 230	Sociology of Ethnic Relations.	3	GEOG 333 Introduction to Programming for Spatial Sciences. 3
SOCI 333	Social Stratification.	3	
SOCI 366	Neighborhoods and Inequality .	3	
SOCI 388	Crime.	3	
Urban Planning			
Expand allContract all			
Course	Title	Credits	3 credits selected from:
URBP 201	Planning the 21st Century City.	3	Expand allContract all
URBP 501	Principles and Practice 1.	2	Course Title Credits
URBP 504	Planning for Active Transportation.	3	ATOC 309 Weather Radars and Satellites. 1 3
URBP 506	Environmental Policy and Planning.	3	GEOG 308 Remote Sensing for Earth Observation. 1 3
URBP 530	Urban Infrastructure and Services in International Context .	3	GEOG 414 Advanced Geospatial Analysis. 1 3
URBP 536	Current Issues in Transportation 1.	2	
URBP 537	Current Issues in Transportation 2.	2	
URBP 551	Urban Design and Planning.	3	
URBP 556	Urban Economy: A Spatial Perspective.	3	

GIS & Remote Sensing Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

The Minor Concentration in GIS and Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 314	Geospatial Analysis.	3

Complementary Courses (12 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 309	Weather Radars and Satellites.	1 3
GEOG 308	Remote Sensing for Earth Observation.	1 3
GEOG 414	Advanced Geospatial Analysis.	1 3

6 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 309	Weather Radars and Satellites.	1 3
ESYS 300	Earth Data Analysis.	3
GEOG 202	Statistics and Spatial Analysis.	3
GEOG 308	Remote Sensing for Earth Observation.	1 3
GEOG 384	Principles of Geospatial Web.	3
GEOG 414	Advanced Geospatial Analysis.	1 3
GEOG 506	Advanced Geographic Information Science.	3
GEOG 535	Remote Sensing and Interpretation.	3

¹ May be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

Health Geography Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

There is increasing consensus around the idea that health is not just an expression of individual characteristics but an interaction between the characteristics of the individual and the environments, both physical and social, to which one is exposed over a lifetime of daily living and working. Health outcomes vary dramatically by physical and social characteristics of places both within and between countries and these provide a wedge for our understanding of the factors that might be modified to improve the health of large groups of people. The B.A.; Minor Concentration in Health Geography introduces students to both local and global health issues and provides a skill set in spatial and statistical analyses of diverse health outcomes in populations.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 403	Global Health and Environmental Change.	3

Complementary Courses (6 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
GEOG 203	Environmental Systems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 217	Cities in the Modern World.	3

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 503	Advanced Topics in Health Geography. ¹	3
PPHS 501	Population Health and Epidemiology. ¹	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 525	Health Care Systems in Comparative Perspective.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3
SOCI 309	Health and Illness. ¹	3
SOCI 365	Health and Development. ¹	3
SOCI 525	Health Care Systems in Comparative Perspective.	3

¹ These courses may have additional prerequisites or restrictions.

² Students can take PPHS 525 Health Care Systems in Comparative Perspective. OR SOCI 525 Health Care Systems in Comparative Perspective.

Geography Minor (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Complementary Courses (12 credits)

3 credits of Geography courses at the 200 level below.

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3

9 credits from any Geography course at the 300 level or above.

GIS & Remote Sensing Minor (B.A. & Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 314	Geospatial Analysis.	3

Complementary Courses (12 credits)

3 credits selected from:

Expand all		Contract all
Course	Title	Credits
COMP 202	Foundations of Programming.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3

3 credits selected from:

Expand all		Contract all
Course	Title	Credits
ATOC 309	Weather Radars and Satellites. ¹	3
GEOG 308	Remote Sensing for Earth Observation. ¹	3
GEOG 414	Advanced Geospatial Analysis. ¹	3

¹ may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

6 credits selected from:

Expand all		Contract all
Course	Title	Credits
ATOC 309	Weather Radars and Satellites. ¹	3
ESYS 300	Earth Data Analysis.	3
GEOG 202	Statistics and Spatial Analysis.	3
GEOG 308	Remote Sensing for Earth Observation. ¹	3
GEOG 384	Principles of Geospatial Web.	3
GEOG 414	Advanced Geospatial Analysis. ¹	3
GEOG 506	Advanced Geographic Information Science.	3
GEOG 535	Remote Sensing and Interpretation.	3

¹ may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

Geography - Physical Geography Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration Geography - Physical Geography, which is restricted to students in the B.A. & Sc., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 202	Statistics and Spatial Analysis.	3
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Complementary Courses (24 credits)

Courses are selected as follows:

6 credits of analytical techniques are selected from:

Expand all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 351	Quantitative Methods.	3
GEOG 414	Advanced Geospatial Analysis.	3

3 credits of field courses selected from:

Expand all

Course	Title	Credits
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

9-15 credits in systematic physical geography selected from:

Expand all

Course	Title	Credits
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3

GEOG 322	Environmental Hydrology.	3
GEOG 372	Running Water Environments.	3
GEOG 470	Wetlands.	3
GEOG 471	Arctic System Science	3

0-6 credits in integrative and advanced topics selected from:

Expand allContract all		
Course	Title	Credits
GEOG 302	Environmental Management 1.	3
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 438	Sand in the Anthropocene	3
GEOG 505	Global Biogeochemistry.	3
GEOG 506	Advanced Geographic Information Science.	3
GEOG 536	Geocryology.	3
GEOG 550	Historical Ecology Techniques.	3
GEOG 555	Ecological Restoration.	3

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (7 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 216	Geography of the World Economy.	3
GEOG 290	Local Geographical Excursion.	1

Complementary Courses (30 credits)

Physical Geography

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies.	3
GEOG 475	Contested Cities and Urban Activism	3
GEOG 494	Urban Field Studies.	3
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

Analysis and Methodology

3 credits from:

Expand allContract all

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

Course	Title	Credits	
GEOG 308	Remote Sensing for Earth Observation.	3	• The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
GEOG 314	Geospatial Analysis.	3	
GEOG 333	Introduction to Programming for Spatial Sciences.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
GEOG 351	Quantitative Methods.	3	
GEOG 414	Advanced Geospatial Analysis.	3	
GEOG 506	Advanced Geographic Information Science.	3	
GEOG 512	Advanced Quantitative Methods in Social Field Research.	3	

Geography

The remaining 18 credits are to be selected from Geography (GEOG) courses excluding GEOG 200 Geographical Perspectives: World Environmental Problems, and GEOG 205 Global Change: Past, Present and Future.. Of these 18 credits, at least 3 credits must be at the 400 level or above.

Geography (Urban Studies) Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

This major concentration exposes students to various approaches to the study of the urban world. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to a range of urban dynamics and the challenges facing contemporary cities around the world, and a variety of methodological approaches. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Studies, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found in the Arts guidelines for "Course Requirements".

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 217	Cities in the Modern World.	3
GEOG 351	Quantitative Methods.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 217	Cities in the Modern World.	3
GEOG 351	Quantitative Methods.	3

Complementary Courses (27 credits)

Statistics

3 credits from:

NOTE: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Field Course

3 credits selected from:

Expand allContract all

Course	Title	Credits
GEOG 425	Southeast Asia Urban Field Studies. ¹	3
GEOG 494	Urban Field Studies. ¹	3
GEOG 475	Contested Cities and Urban Activism	3

¹ NOTE: Students may take either GEOG 425 Southeast Asia Urban Field Studies. or GEOG 494 Urban Field Studies., but not both.

Remaining Courses

21 credits selected from the course lists below. Of these 21 credits, at least 15 credits must be at the 300-level or above. At least 6 credits must also be taken outside of Geography.

Geography

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3

			Credits	
GEOG 221	Environment and Health.	3	Course	
GEOG 303	Health Geography.	3	ISLA 311	
GEOG 310	Development and Livelihoods.	3	History of the City-Islamic World	
GEOG 311	Economic Geography.	3	ISLA 395	
GEOG 314	Geospatial Analysis.	3	Melancholic Migrants	
GEOG 315	Urban Transportation Geography.	3	Management	
GEOG 316	Political Geography.	3	Expand allContract all	
GEOG 325	New Master-Planned Cities.	3	Course	
GEOG 331	Urban Social Geography.	3	Title	
GEOG 333	Introduction to Programming for Spatial Sciences.	3	Credits	
GEOG 408	Geography of Development.	3	POLI 318	
GEOG 409	Geographies of Developing Asia.	3	Comparative Local Government.	
GEOG 414	Advanced Geospatial Analysis.	3	POLI 321	
GEOG 417	Urban Geography.	3	Issues: Canadian Public Policy.	
GEOG 418	Geographies of Race.	3	Quebec Studies	
GEOG 420	Memory, Place, and Power.	3	Expand allContract all	
GEOG 503	Advanced Topics in Health Geography.	3	Course	
GEOG 504	Advanced Economic Geography.	3	Title	
GEOG 507	Advanced Social Geography.	3	Credits	
GEOG 511	Advanced Political Geography.	3	SOCI 222	
GEOG 525	Asian Cities in the 21st Century.	3	Urban Sociology.	
Architecture		3		
Although Architecture courses have prerequisites, they are waived for Urban Studies students, but 500-level courses may not be taken before the U3.		Expand allContract all		
Expand allContract all		Credits		
Course	Title	Credits		
ARCH 517	Sustainable Residential Development.	3	URBP 201	
ARCH 528	History of Housing.	3	Planning the 21st Century City.	
Art History and Communication Studies		3		
Expand allContract all		Credits		
Course	Title	Credits		
ARTH 204	Introduction to Medieval Art and Architecture.	3	URBP 501	
COMS 425	Urban Culture and Everyday Life.	3	Principles and Practice 1.	
Civil Engineering		3	URBP 504	
Expand allContract all		3	Planning for Active Transportation.	
Course	Title	Credits		
CIVE 540	Urban Transportation Planning.	3	URBP 506	
History		3	Environmental Policy and Planning.	
Expand allContract all		Credits		
Course	Title	Credits		
HIST 353	History of Montreal.	3	URBP 530	
HIST 397	Canada: Ethnicity, Migration.	3	Urban Infrastructure and Services in International Context .	
Islamic Studies		3	URBP 536	
Expand allContract all		3	Current Issues in Transportation 1.	
Course	Title	Credits		
		3	URBP 537	
		3	Current Issues in Transportation 2.	
		3	URBP 551	
		3	Urban Design and Planning.	
		3	URBP 556	
		3	Urban Economy: A Spatial Perspective.	
Geography Joint Honours Component (B.A. & Sc.) (37 credits)				
Offered by: Geography (Faculty of Science)				
Degree: Bachelor of Arts; Bachelor of Arts and Science				
Program credit weight: 37				

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components of Geography and another Arts discipline. As with the regular Honours program, the Geography component of Joint Honours focuses on the interactions among people, places, and the environment, and requires an Honours project, which entails independent, original research conducted over two semesters, normally in the final year of study, under the supervision of a department faculty member. The requirements for Honours programs vary considerably among units, so students interested in Joint Honours should consult an adviser in each department to discuss their course selection and research project(s).

In addition to the Faculty of Arts requirement that Joint Honours students maintain a CGPA of at least 3.00, students in a Joint Honours Component Geography program must maintain a program GPA of at least 3.30 to remain in the Honours program and receive an Honours degree. In addition to meeting these Geography requirements, students must meet the requirements set forth by the other unit.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 216	Geography of the World Economy.	3
GEOG 290	Local Geographical Excursion.	1
GEOG 351	Quantitative Methods.	3
GEOG 381	Geographic Thought and Practice.	3

Complementary Courses (24 credits)

Introductory Physical Geography

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1 Joint Honours Research./GEOG 492D2 Joint Honours Research.. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

Expand allContract all

Course	Title	Credits
GEOG 491D1	Honours Research.	3
GEOG 491D2	Honours Research.	3
GEOG 492D1	Joint Honours Research.	1.5
GEOG 492D2	Joint Honours Research.	1.5

Geography

12-15 credits from a coherent set of Geography (GEOG) courses excluding GEOG 200 Geographical Perspectives: World Environmental Problems. and GEOG 205 Global Change: Past, Present and Future., approved by the Program Adviser. Including a field course is desirable. No more than 6 credits may be taken from 200-level courses.

Classics Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Classical Studies introduces students to the linguistic, historical and cultural dimensions of Greece and Rome. The Minor Concentration can be expanded to a Major Concentration in Classics.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3

Complementary Courses (15 credits)

15 credits of Classics (CLAS) or related courses according to the following stipulations:

6 credits minimum of Ancient Greek or Latin.

Expand allContract all

Course	Title	Credits
CLAS 210	Introductory Latin 1.	3
CLAS 212	Introductory Latin 2.	3
CLAS 215	Intensive Introductory Latin.	6
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
CLAS 225	Intensive Introductory Ancient Greek.	6
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Minimum 3 credits CLAS courses at the 400-level

NOTE: Maximum 9 credits complementary courses at the 200-level

Note: a maximum total of 6 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

History Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration History introduces students to the study of diverse cultures and societies around the world from antiquity to contemporary times. It is an excellent complement to the major concentrations offered in the Faculty of Arts. The Minor Concentration History is expandable to a Major Concentration History.

Students wishing to complete a history program are encouraged to consult a Program Adviser at the beginning of their first year, and to fill out a departmental program advising/audit form. For more information about the undergraduate programs in history, and for advising information and forms, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Complementary Courses (18 credits)

18 credits of history courses (HIST or Cognate courses - see list below), of which no more than 6 credits may be at the 200-level.

Cognate Courses

The following non-HIST courses may be counted toward the History minor program (max. 3 credits). Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 312	Modern Jewish History.	3

JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3
RELG 326	Christians in the Roman World.	3

Notes: 200-level cognate courses count toward the 6-credit limit of 200-level courses allowed for the program.

Classics Major Concentration (B.A. & Sc.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Classical Studies is an in-depth study of ancient Greece and Rome. Two Streams are offered. The Classical Languages stream emphasizes ancient Greek and Latin language, requiring advanced coursework in one or both languages. The Classical Studies stream provides a broad foundation in ancient languages and Greek and Roman literature while allowing students greater flexibility to take a variety of courses in translation.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3

Complementary Courses (33 credits)

33 credits from one of the following two streams.

Classical Languages Stream

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Classical Studies Stream

6 credits in the following:

Expand allContract all

Course	Title	Credits
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 302	Roman Literature and Society.	3

27 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits intermediate Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3

NOTE: Minimum 6 credits 400-level CLAS courses.

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Note: For either stream students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

History Major Concentration (B.A. & Sc.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration History is a highly flexible program that emphasizes both breadth and depth, while introducing students to different historical theories and methodologies. Students select from a wide variety of courses on diverse cultures and societies around the world from antiquity to contemporary times, and also on thematic subjects such history and sexuality, imperialism and colonialism, histories of science, environmental history, and the history of thought and ideas. Students design their program to match their geographic, chronological, thematic or methodological interests.

Students wishing to complete a history program should consult a Program Adviser at the beginning of their first year, and fill out a departmental program advising/audit form. For more information, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the credit requirements for history programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

36 credits of HIST or cognate courses (see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Note: Cognate courses (see below) may not be used to satisfy the Distribution requirement

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 The Historian's Craft. may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Maximum 15 credits of complementary courses at the 200-level.
- Minimum 6 credits of 400- or 500- level courses.

Note: student may use at most 3 credits of HIST 498 Independent Research. or HIST 499 Internship: History. to fulfill this requirement.

Group A

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 211	American History to 1865.	3
HIST 212	Medieval Europe.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
HIST 216	Introduction to Russian History.	3
HIST 221	United States since 1865.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 250	Making Great Britain and Ireland.	3

Group B

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 205	Ancient Mediterranean History.	3
HIST 206	Indian Ocean World History.	3
HIST 208	Introduction to East Asian History.	3
HIST 209	Introduction to South Asian History.	3
HIST 210	Introduction to Latin American History .	3
HIST 218	Modern East Asian History.	3
HIST 275	Ancient Roman History.	3

Group C

Expand allContract all

Course	Title	Credits			
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 348	Modern Jewish Studies.	3
HIST 213	World History, 600-2000.	3	JWST 365	Modern Jewish Ideologies.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 366	History of Zionism.	3
HIST 222	History of Pandemics.	3	JWST 371	Jews and the City.	3
HIST 223	Indigenous Peoples and Empires.	3			
HIST 224	Introduction to the African Diaspora.	3			
HIST 238	Histories of Science.	3			
HIST 240	Modern History of Islamic Movements.	3			
HIST 249	Health and the Healer in Western History.	3			
HIST 262	Mediterranean and European Interconnections.	3			
HIST 292	History and the Environment.	3			
HIST 298AA	Topics in History	3			
or HIST 298AB	Introduction to Caribbean History				
HIST 299	The Historian's Craft.	3			

Cognate Courses (max. 6 credits)

The following non-HIST courses may be counted toward the History major concentration. Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty regulations stipulate that a course may not be counted toward more than one program.

Expand allContract all

Course	Title	Credits			
CLAS 303	Ancient Greek Religion.	3			
CLAS 304	Ancient Greek Democracy.	3			
CLAS 305	Roman Religion.	3			
CLAS 406	Greek and Roman Historiography.	3			
ISLA 305	Topics in Islamic History.	3			
ISLA 311	History of the City-Islamic World	3			
ISLA 315	Ottoman State and Society to 1839.	3			
ISLA 355	Modern History of the Middle East.	3			
ISLA 375	Sufi Women	3			
ISLA 410	History: Middle-East 1798-1918.	3			
ISLA 411	History: Middle-East 1918-1945.	3			
ISLA 421	Islamic Culture - Indian Subcontinent.	3			
ISLA 511	Medieval Islam, 10th-12th Century.	3			
ISLA 516	Medieval Islam, 13th-15th Century.	3			
ISLA 530	Advanced Sufism	3			
ISLA 580	Ottoman Institutions.	3			
JWST 240	The Holocaust.	3			
JWST 245	Jewish Life in the Islamic World.	3			
JWST 303	The Soviet Jewish Experience.	3			
JWST 311	Gender in Jewish History.	3			
JWST 312	Modern Jewish History.	3			
JWST 334	Jews and Muslims: A Modern History.	3			

Classics Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes the study of ancient Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or for graduate programs that require proficiency in ancient languages.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CLAS 201	Greece and Rome.	3
CLAS 310	Intermediate Latin 1.	3

CLAS 320	Intermediate Ancient Greek 1.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
CLAS 500	Classics Seminar.	3	

Complementary Courses (24 credits)

24 credits of Classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

Expand allContract all

Course	Title	Credits
CLAS 410	Advanced Latin: Authors.	3
CLAS 412	Advanced Latin: Themes.	3
CLAS 420	Advanced Ancient Greek: Authors.	3
CLAS 422	Advanced Ancient Greek: Themes.	3
CLAS 429	Medieval Greek.	3

NOTE: Maximum 15 credits complementary courses at the 200 level.

NOTE: Maximum 9 credits of non-CLAS courses.

Note: students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

History Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. The Joint Honours Component History is a flexible program that emphasizes breadth, depth as well as historical methods and research.

Students wishing to complete the Joint Honours History Component should consult a Program Adviser at the beginning of their first year to map out a course of study, and fill out a departmental program advising/audit form. For more information, visit the program's website: <http://www.mcgill.ca/history/undergraduate>. Students must also fulfill program requirements in the second honours component and should consult an adviser in that program.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
HIST 399	History and Historiography.	3

Complementary Courses (33 credits)

33 credits of HIST courses or cognate courses (see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Note: Cognate courses (see below) may not be used to satisfy the Distribution requirement.

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 The Historian's Craft, and HIST 399 History and Historiography, may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Minimum 6 credits of honours seminars (500-level D1/D2 courses)
- Minimum 3 additional credits of 400- or 500-level HIST courses.
- Maximum 12 credits complementary courses at 200-level.

GPA requirements:

- 3.30 in program courses
- 3.0 (B) or higher in each program course
- CGPA 3.0 or higher

Group A

Expand allContract all

Course	Title	Credits	Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3	CLAS 303	Ancient Greek Religion.	3
HIST 203	Survey: Canada since 1867.	3	CLAS 304	Ancient Greek Democracy.	3
HIST 211	American History to 1865.	3	CLAS 305	Roman Religion.	3
HIST 212	Medieval Europe.	3	CLAS 406	Greek and Roman Historiography.	3
HIST 214	Early Modern Europe.	3	ISLA 305	Topics in Islamic History.	3
HIST 215	Modern Europe.	3	ISLA 311	History of the City-Islamic World	3
HIST 216	Introduction to Russian History.	3	ISLA 315	Ottoman State and Society to 1839.	3
HIST 221	United States since 1865.	3	ISLA 355	Modern History of the Middle East.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3	ISLA 365	Middle East Since the 1970's.	3
HIST 250	Making Great Britain and Ireland.	3	ISLA 375	Sufi Women	3
			ISLA 410	History: Middle-East 1798-1918.	3
			ISLA 411	History: Middle-East 1918-1945.	3
			ISLA 421	Islamic Culture - Indian Subcontinent.	3
HIST 200	Introduction to African History.	3	ISLA 511	Medieval Islam, 10th-12th Century.	3
HIST 201	Modern African History.	3	ISLA 515	The Medieval School in Islam.	3
HIST 205	Ancient Mediterranean History.	3	ISLA 516	Medieval Islam, 13th-15th Century.	3
HIST 206	Indian Ocean World History.	3	ISLA 530	Advanced Sufism	3
HIST 208	Introduction to East Asian History.	3	ISLA 580	Ottoman Institutions.	3
HIST 209	Introduction to South Asian History.	3	JWST 240	The Holocaust.	3
HIST 210	Introduction to Latin American History .	3	JWST 245	Jewish Life in the Islamic World.	3
HIST 218	Modern East Asian History.	3	JWST 303	The Soviet Jewish Experience.	3
HIST 275	Ancient Roman History.	3	JWST 311	Gender in Jewish History.	3
			JWST 312	Modern Jewish History.	3
			JWST 334	Jews and Muslims: A Modern History.	3

Group C

Expand allContract all

Course	Title	Credits	Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 348	Modern Jewish Studies.	3
HIST 213	World History, 600-2000.	3	JWST 365	Modern Jewish Ideologies.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 366	History of Zionism.	3
HIST 222	History of Pandemics.	3	JWST 371	Jews and the City.	3
HIST 223	Indigenous Peoples and Empires.	3	RELG 326	Christians in the Roman World.	3
HIST 224	Introduction to the African Diaspora.	3		Notes: 200-level cognate courses count toward the 12-credit limit of 200-level courses allowed for the program.	
HIST 238	Histories of Science.	3			
HIST 240	Modern History of Islamic Movements.	3			
HIST 249	Health and the Healer in Western History.	3			
HIST 262	Mediterranean and European Interconnections.	3			
HIST 292	History and the Environment.	3			
HIST 299	The Historian's Craft.	3			

Cognate Courses (max. 6 credits)

The following non-HIST courses may be counted toward the History joint honours component. Additional courses may be submitted for consideration to the Undergraduate Program Director. Faculty

regulations stipulate that a course may not be counted toward more than one program.

Expand allContract all

Course	Title	Credits
CLAS 303	Ancient Greek Religion.	3
CLAS 304	Ancient Greek Democracy.	3
CLAS 305	Roman Religion.	3
CLAS 406	Greek and Roman Historiography.	3
ISLA 305	Topics in Islamic History.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 580	Ottoman Institutions.	3
JWST 240	The Holocaust.	3
JWST 245	Jewish Life in the Islamic World.	3
JWST 303	The Soviet Jewish Experience.	3
JWST 311	Gender in Jewish History.	3
JWST 312	Modern Jewish History.	3
JWST 334	Jews and Muslims: A Modern History.	3
JWST 348	Modern Jewish Studies.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3
JWST 371	Jews and the City.	3
RELG 326	Christians in the Roman World.	3

South Asian Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.: Minor Concentration in South Asian Studies offers breadth and depth on the history, literature, languages, politics, religions, cultures, and societies of South Asia. The minor concentration is

divided into two streams, "Culture and Civilization" and "Languages." An interdisciplinary curriculum is collaboratively offered by the Department of Anthropology, English, History and Classical Studies, Political Science, and Sociology, the Institute of Islamic Studies, and the School of Religious Studies, and is complemented by language instruction in Persian, Sanskrit, Tibetan, and Urdu-Hindi.

Complementary Courses (18 credits)

18 credits from one of the following streams:

Stream 1: Culture and Civilization

Note: As course content may change according to the offering unit's yearly curriculum, all classes listed must be approved in consultation with the South Asian Studies adviser as relevant to the Minor Concentration. Students should refer to the Course Catalogue to confirm any prerequisites for the following courses.

Introductory Curriculum

6 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 327	Anthropology of South Asia.	3
ANTH 361	Archaeology of South Asia.	3
ENGL 297	Special Topics of Literary Study.	3
HIST 209	Introduction to South Asian History.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 395	Melancholic Migrants	3
POLI 322	Political Change in South Asia.	3
RELG 252	Hinduism and Buddhism.	3
RELG 254	Introduction to Yoga Traditions.	3

Intermediate and Advanced Curriculum

12 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 308	Political Anthropology 01.	3
ANTH 510	Advanced Problems in Anthropology of Religion.	3
ENGL 336	The 20th Century Novel 2.	3
ENGL 404	Studies in 19th Century Literature 1.	3
ENGL 408	The 20th Century.	3
HIST 341	Themes in South Asian History.	3
HIST 435	Topics in South Asian History.	3
HIST 481	History of Bangladesh and Pakistan.	3
ISLA 305	Topics in Islamic History.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 489	Special Topics 6.	3
ISLA 555	Urdu Poetry.	3
ISLA 581	Special Topics 1.	3
POLI 423	Politics of Ethno-Nationalism.	3

POLI 435	Identity and Inequality.	3
RELG 288	Introduction to Sikhism.	3
RELG 344	Mahayana Buddhism.	3
RELG 348	Classical Hinduism.	3
RELG 350	Bhakti Hinduism.	3
RELG 353	Gandhi: His Life and Thought.	3
RELG 366	Rivers, Religion, and Environment in South Asia.	3
RELG 369	Tibetan Buddhism.	3
RELG 372	Hindu Goddesses.	3
RELG 378	Pilgrimage, Heritage, and Tourism.	3
RELG 444	Indian Ocean Religious Networks.	3
RELG 453	Vajrayana Buddhism.	3
RELG 544	Ethnography as Method in Religious Studies.	3
RELG 545	Ramayana: Multiple Lives.	3
RELG 547	Special Topics in Hinduism.	3
RELG 548	Indian Buddhist Philosophy.	3
RELG 551	Special Topics in Buddhism.	3
RELG 552	Advaita Vedanta.	3
RELG 556	Issues in Buddhist Studies.	3
RELG 558	Indian Tantric Traditions.	3
RELG 560	Buddhist Poetry.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 550	Developing Societies.	3

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Students may apply up to 6 credits in South Asian language study, with approval from the adviser.

Stream 2: Language

Either 18 credits in one of the following languages: Persian, Sanskrit, Tibetan, or Urdu-Hindi, from the courses listed below.

Or 18 credits of combined language study from courses listed below, consisting of 6 credits of one of Persian, Sanskrit, Tibetan, or Urdu-Hindi and 12 credits of another South Asian language from the courses listed below.

Note: Students should refer to the Course Catalogue to confirm any prerequisites for the following courses.

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3

ISLA 443D1	Upper Intermediate Persian.	3	Concentration enables students to take courses about Canada outside the areas of their other major or minor concentrations.
ISLA 443D2	Upper Intermediate Persian.	3	
ISLA 545	Advanced Persian 1.	3	
ISLA 546	Advanced Persian 2.	3	

Sanskrit

Expand allContract all

Course	Title	Credits
RELG 257D1	Introductory Sanskrit.	3
RELG 257D2	Introductory Sanskrit.	3
RELG 357D1	Sanskrit 2.	3
RELG 357D2	Sanskrit 2.	3
RELG 457D1	Advanced Sanskrit.	3
RELG 457D2	Advanced Sanskrit.	3

Tibetan

Expand allContract all

Course	Title	Credits
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3

Urdu-Hindi

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Canadian Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This interdisciplinary program focuses on different aspects of Canada and its key institutions, with an emphasis on public affairs. The Minor

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3

Complementary Courses (12 credits)

3 credits chosen from:

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
FREN 252	Littérature québécoise.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
INDG 200	Introduction to Indigenous Studies.	3
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
QCST 200	Introduction to the Study of Quebec.	0-3
SOCI 230	Sociology of Ethnic Relations.	3

3-9 credits in interdisciplinary Canadian Studies (CANS) courses from:

Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 307	Canada in the World.	3
CANS 308	Sex and Gender in Canada.	3
CANS 310	Canadian Cultures: Context and Issues.	3
CANS 311	Topics in Canadian Public Affairs 1.	3
CANS 312	Topics in Canadian Public Affairs 2.	3
CANS 315	Indigenous Art and Culture.	3
CANS 401	Canadian Studies Seminar 1.	3
CANS 402	Canadian Studies Seminar 2.	3
CANS 404	Canadian Studies Seminar 4.	3
CANS 405	Canadian Studies Seminar 5.	3
CANS 406	Canadian Studies Seminar 6.	3
CANS 413	Canada and Quebec Seminar.	3
CANS 499	Internship - Canadian Studies.	3

0-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 357	Cultural Diversity in Canada.	3
HIST 363	Canada 1870-1914.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 417	Health Care in Canada.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Canadian Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Canadian Studies is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it relates to social and cultural issues and debates in the Canadian context and the responses and actions taken or needed to be taken. The program draws on interdisciplinary perspectives incorporating research and approaches from both the humanities and the social sciences.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3

Complementary Courses (30 credits)

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 306	Topics in Indigenous Public Affairs .	3
INDG 200	Introduction to Indigenous Studies.	3

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 440	Contemporary Issues in Quebec.	3

Or another undergraduate-level 3-credit focused on Quebec.

200 Level

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3

ENGL 228	Canadian Literature 1.	3	HIST 363	Canada 1870-1914.	3
ENGL 229	Canadian Literature 2.	3	HIST 364	Canada 1914-1945.	3
FREN 252	Littérature québécoise.	3	HIST 367	Canada since 1945.	3
HIST 202	Survey: Canada to 1867.	3	ISLA 395	Melancholic Migrants	3
HIST 203	Survey: Canada since 1867.	3	LING 325	Canadian English.	3
INDG 200	Introduction to Indigenous Studies.	3	POLI 336	Le Québec et le Canada.	3
POLI 221	Government of Canada.	3	POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 222	Political Process and Behaviour in Canada.	3	POLI 417	Health Care in Canada.	3
SOCI 230	Sociology of Ethnic Relations.	3	POLI 426	Partis politiques et comportements électoraux au Québec.	3
300-400 Levels					
9-15 credits in the interdisciplinary Canadian Studies (CANS) courses chosen from:					
Expand all	Contract all		QCST 300	Quebec Culture and Society.	3
Course	Title	Credits	QCST 440	Contemporary Issues in Quebec.	3
CANS 300	Topics in Canadian Studies 1.	3	SOCI 375	Suspect Minorities in Canada.	3
CANS 301	Topics in Canadian Studies 2.	3	SOCI 475	Canadian Ethnic Studies Seminar.	3
CANS 307	Canada in the World.	3			
CANS 308	Sex and Gender in Canada.	3			
CANS 310	Canadian Cultures: Context and Issues.	3			
CANS 311	Topics in Canadian Public Affairs 1.	3			
CANS 312	Topics in Canadian Public Affairs 2.	3			
CANS 315	Indigenous Art and Culture.	3			
CANS 401	Canadian Studies Seminar 1.	3			
CANS 402	Canadian Studies Seminar 2.	3			
CANS 404	Canadian Studies Seminar 4.	3			
CANS 405	Canadian Studies Seminar 5.	3			
CANS 406	Canadian Studies Seminar 6.	3			
CANS 408	Individual Reading Course.	3			
CANS 413	Canada and Quebec Seminar.	3			
CANS 499	Internship - Canadian Studies.	3			

6-12 credits chosen from:

ANTH 338	Indigenous Studies of Anthropology.	3	Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).
ARTH 302	Aspects of Canadian Art.	3	
ECON 303	Canadian Economic Policy.	3	
ECON 305	Industrial Organization.	3	
ECON 308	Governmental Policy Towards Business.	3	
ENGL 313	Canadian Drama and Theatre.	3	
ENGL 393	Canadian Cinema.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
FREN 315	Cinéma québécois.	3	
HIST 303	History of Quebec.	3	
HIST 342	Canada and the World.	3	
HIST 343	Women in Post-Confederation Canada.	3	
HIST 357	Cultural Diversity in Canada.	3	

Canadian Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Joint Honours - Canadian Studies Component is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it related to social and cultural issues and debates in the Canadian context, and the responses and actions taken or needed to be taken.

Students who wish to study at the Honours level in two disciplines can combine Joint Honours components from any two Arts disciplines. Students with a minimum program GPA of 3.30 in their program courses and, in keeping with Faculty regulations, a minimum CGPA of 3.00 in general, are eligible to apply to the Joint Honours. Application deadlines are December 25 and May 15. Forms are available on the McGill Institute for the Study of Canada (MISC) website.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 420	Shaping Public Affairs in Canada.	3
CANS 492	Joint Honours Thesis.	3

Complementary Courses (27 credits)

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 306	Topics in Indigenous Public Affairs .	3
INDG 200	Introduction to Indigenous Studies.	3

3 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 440	Contemporary Issues in Quebec.	3

Or another undergraduate-level 3-credit course focused on Quebec.

200 Level

6 credits chosen from:

Expand allContract all

Course	Title	Credits
CANS 203	Making Canada	3
ECON 219	Current Economic Problems: Topics.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
FREN 252	Littérature québécoise.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
INDG 200	Introduction to Indigenous Studies.	3
POLI 221	Government of Canada.	3

POLI 222	Political Process and Behaviour in Canada.	3
SOCI 230	Sociology of Ethnic Relations.	3

300 and 400 levels

6-12 credits in interdisciplinary Canadian Studies (CANS) courses chosen from:

Expand allContract all

Course	Title	Credits
CANS 300	Topics in Canadian Studies 1.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 307	Canada in the World.	3
CANS 308	Sex and Gender in Canada.	3
CANS 310	Canadian Cultures: Context and Issues.	3
CANS 311	Topics in Canadian Public Affairs 1.	3
CANS 312	Topics in Canadian Public Affairs 2.	3
CANS 315	Indigenous Art and Culture.	3
CANS 401	Canadian Studies Seminar 1.	3
CANS 402	Canadian Studies Seminar 2.	3
CANS 404	Canadian Studies Seminar 4.	3
CANS 405	Canadian Studies Seminar 5.	3
CANS 406	Canadian Studies Seminar 6.	3
CANS 408	Individual Reading Course.	3
CANS 413	Canada and Quebec Seminar.	3
CANS 499	Internship - Canadian Studies.	3

6-12 credits chosen from:

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ARTH 302	Aspects of Canadian Art.	3
ECON 303	Canadian Economic Policy.	3
ECON 305	Industrial Organization.	3
ECON 308	Governmental Policy Towards Business.	3
ENGL 313	Canadian Drama and Theatre.	3
ENGL 393	Canadian Cinema.	3
FREN 315	Cinéma québécois.	3
HIST 303	History of Quebec.	3
HIST 342	Canada and the World.	3
HIST 343	Women in Post-Confederation Canada.	3
HIST 364	Canada 1914-1945.	3
HIST 367	Canada since 1945.	3
ISLA 395	Melancholic Migrants	3
LING 325	Canadian English.	3
POLI 336	Le Québec et le Canada.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 417	Health Care in Canada.	3

POLI 426	Partis politiques et comportements électoraux au Québec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3
SOCI 375	Suspect Minorities in Canada.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Indigenous Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
INDG 200	Introduction to Indigenous Studies.	3
INDG 401	Interdisciplinary Seminar in Indigenous Studies.	3

Complementary Courses (12 credits)

A maximum of 3 complementary course credits at the 200-level. A maximum of 6 credits from any given discipline with the exception of Indigenous Studies (INDG) courses.

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 436	North American Native Peoples.	3

Canadian Studies

Expand allContract all

Course	Title	Credits
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 315	Indigenous Art and Culture.	3

English

Expand allContract all

Course	Title	Credits
ENGL 297	Special Topics of Literary Study.	3
ENGL 440	First Nations and Inuit Literature and Media.	3

Gender, Sexuality, and Feminist Studies

Expand allContract all

Course	Title	Credits
GSFS 307	Indigenous Feminisms.	3

Geography

Expand allContract all

Course	Title	Credits
GEOG 301	Geography of Nunavut.	3

History

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 303	History of Quebec.	3
HIST 333	Indigenous Peoples and French.	3
HIST 361AA	Topics in Canadian Regional History.	3
HIST 363	Canada 1870-1914.	3
HIST 408	Selected Topics in Indigenous History .	3

Indigenous Studies

Expand allContract all

Course	Title	Credits
INDG 202	Topics in Indigenous Studies 1.	3
INDG 300	Topics in Indigenous Studies 2.	3
INDG 301	Indigenous Contemporary Resistance.	3
INDG 302	Introduction to Kanien'kéha 1	3
INDG 400	Seminar: Indigenous Studies.	3
INDG 420	Indigenous Food Sovereignty.	3
INDG 450	Rotinonhsón:ni Land-Based Pedagogy.	3

Interdisciplinary Field Course

Expand allContract all

Course	Title
IDFC 500	Indigenous Field Studies.

Law

Expand allContract all

Course	Title
CMPL 500	Indigenous Peoples and the State.

Linguistics

Expand allContract all

Course	Title
LING 211	Introduction to Indigenous Languages.
LING 411	Structure of an Indigenous Language.

Political Science

Expand allContract all

Course	Title	Credits
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3

Quebec Studies and Community-Engaged Learning Minor Concentration/Études sur le Québec et apprentissage par engagement communautaire La concentration Mineure (B.A. & Sc.) (18 credits)

Offered by: Institute for Study of Canada (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire a pour but de donner à l'étudiant(e) une connaissance interdisciplinaire des réalités historiques et contemporaines du Québec en complémentarité à sa propre discipline de spécialisation tout en misant sur un apprentissage par engagement communautaire en milieu montréalais. En collaboration avec le Social Equity and Diversity Education (SEDE) Office, les étudiants ont ainsi la possibilité, grâce à un stage, de mettre en pratique le contenu d'enseignement des cours au sein d'un organisme communautaire montréalais. Enjeux liés à l'équité, à la diversité et à l'inclusion en contexte montréalais.

The goal of the Minor Concentration Quebec Studies and Community-Engaged Learning is to give students an interdisciplinary overview of Quebec historical and contemporary realities that is complementary to their degree by taking advantage of a community engagement learning approach within the Montreal community. With the collaboration of the Social Equity and Diversity Education (SEDE) Office, students have the possibility to link the academic course content with a hands-on

experience within a Montreal community organization. Equity, diversity and inclusion issues within the Montreal context.

Required Courses / Cours Obligatoires (9 credits)

De façon usuelle, les cours obligatoires (9 crédits) sont complétés selon la séquence suivante : QCST 200 Introduction to the Study of Quebec. (3 crédits) en U0 ou U1, QCST 300 Quebec Culture and Society. (3 crédits) en U1 et QCST 440 Contemporary Issues in Quebec. (3 crédits) en U2 ou en U3. Les cours complémentaires (9 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (9 credits) are completed in the following order: QCST 200 Introduction to the Study of Quebec. (3 credits) in U0 or U1, QCST 300 Quebec Culture and Society. (3 credits) in U1 and QCST 440 Contemporary Issues in Quebec. (3 credits) in U2 or in U3. The complementary courses (9 credits) can be completed in U1, U2, or U3.

Expand allContract all

Course	Title	Credits
QCST 200	Introduction to the Study of Quebec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3

Complementary Courses / Cours Complémentaires (9 credits)

De ces 9 crédits, 6 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 6 des 9 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 9 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 9 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

Expand allContract all

Course	Title	Credits			
FREN 252	Littérature québécoise.	3	HIST 367	Canada since 1945.	3
POLI 226	La vie politique québécoise.	3	HIST 580D1	European and Native-American Encounters.	3
POLI 336	Le Québec et le Canada.	3	HIST 580D2	European and Native-American Encounters.	3

Anthropology / Anthropologie

Expand allContract all

Course	Title	Credits
ANTH 436	North American Native Peoples.	3

Art History and Communication Studies

Expand allContract all

Course	Title	Credits
COMS 510	Canadian Broadcasting Policy.	3

Canadian Studies / Études sur le Canada

Expand allContract all

Course	Title	Credits
CANS 200	Understanding Canada.	3
CANS 301	Topics in Canadian Studies 2.	3
CANS 306	Topics in Indigenous Public Affairs .	3
CANS 405	Canadian Studies Seminar 5.	3

English / Anglais

Expand allContract all

Course	Title	Credits
ENGL 313	Canadian Drama and Theatre.	3

Environment

Expand allContract all

Course	Title	Credits
ENVR 380	Topics in Environment 1.	3

French Language and Literature / Langue et littérature françaises

Expand allContract all

Course	Title	Credits
FREN 252	Littérature québécoise.	3
FREN 315	Cinéma québécois.	3
FREN 450	Questions de littérature québécoise.	3
FREN 595	Séminaire avancé de recherche.	3

History / Histoire

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 223	Indigenous Peoples and Empires.	3
HIST 333	Indigenous Peoples and French.	3
HIST 335	Science and Medicine in Canada.	3
HIST 353	History of Montreal.	3
HIST 364	Canada 1914-1945.	3

Political Science / Science politique

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 417	Health Care in Canada.	3
POLI 426	Parties politiques et comportements électoraux au Québec.	3

Sociology / Sociologie

Expand allContract all

Course	Title	Credits
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 475	Canadian Ethnic Studies Seminar.	3

Interdisciplinary Life Sciences Minor (B.A. & Sc.) (24 credits)

Offered by: Science (Faculty of Science)**Degree:** Bachelor of Arts and Science**Program credit weight:** 24

Program Description

The Interdisciplinary Life Sciences Minor will allow students from the earth, physical, math, and computational science areas to broaden their studies with some basic life sciences, health social science, and empirical technological science. The Minor is 24 credits and allows students flexibility in their course selections. Students must take 9 credits from an extensive list of basic life science courses, 3 credits from an extensive list of health and social science courses, and 3 credits from an empirical and technological science list. The remaining 9 credits may be taken from courses listed in any of the three categories.

Please note: Students studying in Anatomy and Cell Biology; Biochemistry; Honours Immunology; Microbiology and Immunology; Neuroscience; Pharmacology; and Physiology are not permitted to complete this Minor.

Complementary Courses (24 credits)

The 24 credits required for this program must satisfy the following criteria:

At least 18 credits must be outside the student's main discipline.

Depth requirement:

at least 6 credits must be at the 300 level or above.

Breadth requirement:

at least 9 credits must be taken from the Basic Life Sciences List,

at least 3 credits from the Health Social Sciences List,

at least 3 credits from the Empirical Science and Technology List.

The remaining 9 credits may be selected from any of the lists.

Basic Life Sciences

At least 9 credits from:

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function. ¹	3
ANAT 214	Systemic Human Anatomy.	3
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
BIOC 212	Molecular Mechanisms of Cell Function. ¹	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 450	Protein Structure and Function.	3
BIOC 458	Membranes and Cellular Signaling.	3
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 202	Basic Genetics.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 320	Evolution of Brain and Behaviour.	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 387	The Business of Science.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3
NSCI 201	Introduction to Neuroscience 2.	3
NUTR 307	Metabolism and Human Nutrition.	3
PATH 300	Human Disease.	3
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3
PHAR 303	Principles of Toxicology.	3
PHAR 503	Drug Discovery and Development 1.	3
PHAR 504	Drug Discovery and Development 2.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 342	Hormones and Behaviour.	3

¹ Students take either ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function., but not both.

Health Social Science

At least 3 credits from:

Course	Title	Credits
ANTH 204	Anthropology of Meaning.	3
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 314	Psychological Anthropology 01.	3
ECON 440	Health Economics.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
HIST 249	Health and the Healer in Western History.	3
HIST 335	Science and Medicine in Canada.	3
HIST 350	Science and the Enlightenment.	3
HIST 381	Colonial Africa.	3
HIST 424	Gender, Sexuality and Medicine.	3
HSEL 308	Issues in Women's Health.	3
HSEL 309	Women's Reproductive Health.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 343	Biomedical Ethics.	3

POLI 417	Health Care in Canada.	3
PSYC 215	Social Psychology.	3
PSYC 304	Child Development.	3
PSYC 333	Personality and Social Psychology.	3
PSYC 412	Child Development: Psychopathology .	3
PSYC 413	Cognitive Development.	3
PSYC 414	Social Development.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 365	Health and Development.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3

Empirical Science and Technology

At least 3 credits from:

Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

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Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3
COMP 202	Foundations of Programming.	3
COMP 462	Computational Biology Methods.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
MATH 204	Principles of Statistics 2.	3
MATH 323	Probability. ¹	3
MATH 324	Statistics. ¹	3
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 305	Statistics for Experimental Design.	3

¹ Students who have already received credit for MATH 324 Statistics, will NOT receive credit for GEOG 202 Statistics and Spatial Analysis., MATH 203 Principles of Statistics 1., PSYC 204 Introduction to Psychological Statistics., BIOL 373 Biometry., MATH 204 Principles of Statistics 2., or PSYC 305 Statistics for Experimental Design..

International Development Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Inst for the St of Development (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

3 **Program credit weight:** 18

Program Description

The B.A.; Minor Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, and key development-related themes.

NOTE: At least 9 of the 18 credits must be at the 300 level or above.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (9 credits)

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3

Complementary Courses (9 credits)

Thematic

9 credits from the following:

African Studies

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 206	Environment and Culture.	3
ANTH 207	Ethnography Through Film.	3
ANTH 209	Anthropology of Religion.	3
ANTH 212	Anthropology of Development.	3
ANTH 214	Violence, Warfare, Culture.	3

			Course	Title	Credits
ANTH 222	Legal Anthropology.	3	PPHS 511	Fundamentals of Global Health.	3
ANTH 227	Medical Anthropology.	3			
ANTH 302	New Horizons in Medical Anthropology.	3			
ANTH 304	Chinese Culture in Ethnography and Film.	3			
ANTH 308	Political Anthropology 01.	3			
ANTH 318	Globalization and Religion.	3	GEOG 216	Geography of the World Economy.	3
ANTH 322	Social Change in Modern Africa.	3	GEOG 217	Cities in the Modern World.	3
ANTH 326	Anthropology of Latin America.	3	GEOG 221	Environment and Health.	3
ANTH 327	Anthropology of South Asia.	3	GEOG 302	Environmental Management 1.	3
ANTH 338	Indigenous Studies of Anthropology.	3	GEOG 303	Health Geography.	3
ANTH 339	Ecological Anthropology.	3	GEOG 310	Development and Livelihoods.	3
ANTH 343	Anthropology and the Animal.	3	GEOG 311	Economic Geography.	3
ANTH 355	Theories of Culture and Society.	3	GEOG 325	New Master-Planned Cities.	3
ANTH 418	Environment and Development.	3	GEOG 360	Analyzing Sustainability.	3
ANTH 438	Topics in Medical Anthropology.	3	GEOG 403	Global Health and Environmental Change.	3
ANTH 512	Political Ecology.	3	GEOG 408	Geography of Development.	3
ANTH 575	Concepts of Race.	3	GEOG 409	Geographies of Developing Asia.	3
			GEOG 418	Geographies of Race.	3
			GEOG 425	Southeast Asia Urban Field Studies.	3
			GEOG 510	Humid Tropical Environments.	3

Canadian Studies

Expand allContract all

Course	Title	Credits
CANS 315	Indigenous Art and Culture.	3

East Asian Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3	HIST 200	Introduction to African History.	3
EAST 388	Asian Migrations and Diasporas.	3	HIST 201	Modern African History.	3
EAST 213	Introduction: East Asian Culture: Korea.	3	HIST 206	Indian Ocean World History.	3
EAST 515	Seminar: Beyond Orientalism.	3	HIST 208	Introduction to East Asian History.	3
			HIST 209	Introduction to South Asian History.	3
			HIST 210	Introduction to Latin American History .	3
			HIST 213	World History, 600-2000.	3

Economics

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications.	3	HIST 218	Modern East Asian History.	3
ECON 223	Political Economy of Trade Policy.	3	HIST 223	Indigenous Peoples and Empires.	3
ECON 314	Economic Development 2.	3	HIST 240	Modern History of Islamic Movements.	3
ECON 326	Ecological Economics.	3	HIST 317	Themes in Indian Ocean World History.	3
ECON 347	Economics of Climate Change.	3	HIST 326	History of the Soviet Union.	3
ECON 416	Topics in Economic Development 2.	3	HIST 328	Themes in Modern Chinese History.	3
ECON 473	Income Distribution.	3	HIST 333	Indigenous Peoples and French.	3
			HIST 338	Twentieth-Century China.	3
			HIST 340	History of Modern Egypt.	3
			HIST 341	Themes in South Asian History.	3

English

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 361AA	Topics in Canadian Regional History.	3
ENGL 440	First Nations and Inuit Literature and Media.	3	HIST 363	Canada 1870-1914.	3

Epidemiology and Biostatistics

Expand allContract all

Course	Title	Credits

HIST 409AA	Topics in Latin American History.	3	ISLA 421	Islamic Culture - Indian Subcontinent.	3
HIST 439	History of Women in China.	3	ISLA 430	Islamdom: Baghdad to Cordoba .	3
HIST 528	Indian Ocean World Slave Trade.	3			

Indigenous Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
INDG 200	Introduction to Indigenous Studies.	3	LACS 497	Research Seminar: Latin America and the Caribbean.	3
INDG 420	Indigenous Food Sovereignty.	3			

¹ When topic is relevant to IDS.

International Development Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
INTD 350	Culture and Development.	3	MGCR 382	International Business.	3
INTD 352	Disasters and Development .	3			
INTD 354	Civil Society and Development .	3			
INTD 356	Quantitative Methods for Development .	3			
INTD 358	Ethnographic Approaches to Development .	3			
INTD 360	Environmental Challenges in Development.	3			
INTD 397AA	Topics in International Development	3			
or INTD 397AB	Topics in International Development.	3			
INTD 398AA	Topics in Conflict and Development.	3			
or INTD 398AB	Topics in Conflict and Development.	3			
INTD 490	Development Research Project.	3			
INTD 499	Internship: International Development Studies.	3			

Islamic Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ISLA 200	Islamic Civilization.	3	NUTR 501	Nutrition in the Majority World.	3
ISLA 210	Muslim Societies.	3			
ISLA 305	Topics in Islamic History.	3			
ISLA 310	Women in Islam.	0-3			
ISLA 311	History of the City-Islamic World	3			
ISLA 325	Introduction to Shi'i Islam.	3			
ISLA 330	Islamic Mysticism: Sufism.	3			
ISLA 355	Modern History of the Middle East.	3			
ISLA 360	Islam and Politics in Africa	3			
ISLA 365	Middle East Since the 1970's.	3			
ISLA 370	The Qur'an: History and Interpretation.	3			
ISLA 383	Central Questions in Islamic Law.	3			
ISLA 385	Poetics and Politics in Arabic Literature.	3			
ISLA 388	Persian Literature.	3			
ISLA 390	Islamic Reform and Radicalism: Middle East	3			
ISLA 392	Arabic Literature as World Literature.	3			
ISLA 411	History: Middle-East 1918-1945.	3			
ISLA 415	Modern Iran: Anthropological Approach.	3			

Latin American & Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

Management Core

Expand allContract all

Course	Title	Credits
MGCR 382	International Business.	3

Management, Organizational Behaviour

Expand allContract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Management Policy

Expand allContract all

Course	Title	Credits
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MSUS 402	Systems Thinking and Sustainability.	3

Nutrition

Expand allContract all

Course	Title	Credits
NUTR 501	Nutrition in the Majority World.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relationsinternationales.	3
POLI 319	Politics of Latin America.	3
POLI 322	Political Change in South Asia.	3
POLI 324	Comparative Politics of Africa.	3
POLI 338	Topics in Comparative Politics 1.	3
POLI 340	Comparative Politics of the Middle East.	3
POLI 341	Foreign Policy: The Middle East.	3
POLI 345	International Organizations.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 349	Foreign Policy: Asia.	3

POLI 350	Global Environmental Politics.	3	Course	Title	Credits
POLI 352	International Policy/Foreign Policy: Africa.	3	URBP 530	Urban Infrastructure and Services in International Context .	3
POLI 359	Topics in International Politics 1.	3			
POLI 369	Politics of Southeast Asia.	3			
POLI 372	Indigenous Peoples and the Canadian State.	3			
POLI 380	Contemporary Chinese Politics.	3			
POLI 381	Politics in Japan and South Korea.	3			
POLI 423	Politics of Ethno-Nationalism.	3			
POLI 435	Identity and Inequality.	3			
POLI 441	International Political Economy: Trade.	3			
POLI 442	International Relations of Ethnic Conflict.	3			
POLI 445	International Political Economy: Monetary Relations.	3			
POLI 450	Peacebuilding.	3			
POLI 476	Religion and Politics.	3			

Religious Studies

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 331	Religion and Globalization.	3
RELG 370	Religion and Human Rights.	3
RELG 375	Religion, Politics and Society.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 234	Population and Society.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 307	Globalization.	3
SOCI 309	Health and Illness.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 550	Developing Societies.	3

Social Work

Expand allContract all

Course	Title	Credits
SWRK 400	Policy and Practice for Refugees.	3
SWRK 532	International Social Work.	3

Urban Planning

Expand allContract all

International Development Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Inst for the St of Development (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Major Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Course Selection Guidelines for the Overall Program

- At least 18 of the 36 credits must be at the 300 level or above.
- At least 9 credits must be from INTD courses.
- Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3	ECON 227D1	Economic Statistics.	3
ECON 313	Economic Development 1.	3	ECON 227D2	Economic Statistics.	3
INTD 200	Introduction to International Development.	3	ECON 437	Methods for Causal Inference.	3
INTD 497AA	Advanced Topics in International Development.	3			
or INTD 497AB	Advanced Topics in International Development.				
or INTD 497AC	Advanced topics in International Development				
or INTD 497AD	Advanced topics in International Development				

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 207	Ethnography Through Film.	3
ANTH 212	Anthropology of Development.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
INTD 350	Culture and Development.	3

Politics, Society and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relations internationales.	3
SOCI 254	Development and Underdevelopment.	3

Methods

3-6 credits from the following:

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 358	The Process of Anthropological Research.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 437	Methods for Causal Inference.	3

International Development Studies

Expand allContract all

Course	Title	Credits
INTD 356	Quantitative Methods for Development .	3
INTD 358	Ethnographic Approaches to Development .	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 477	Qualitative Methods in Sociology.	3

When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_...

Thematic

12-15 credits from the following:

African Studies

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Expand allContract all

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Expand allContract all

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 209	Anthropology of Religion.	3
ANTH 214	Violence, Warfare, Culture.	3

Course	Title	Credits
ANTH 222	Legal Anthropology.	3
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 304	Chinese Culture in Ethnography and Film.	3
ANTH 308	Political Anthropology 01.	3
ANTH 318	Globalization and Religion.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 327	Anthropology of South Asia.	3
ANTH 338	Indigenous Studies of Anthropology.	3
ANTH 339	Ecological Anthropology.	3
ANTH 343	Anthropology and the Animal.	3
ANTH 355	Theories of Culture and Society.	3
ANTH 418	Environment and Development.	3
ANTH 438	Topics in Medical Anthropology.	3
ANTH 512	Political Ecology.	3
ANTH 575	Concepts of Race.	3
PPHS 511	Fundamentals of Global Health.	3
Geography		
Expand all		
Contract all		
Course	Title	Credits
GEOG 221	Environment and Health.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 418	Geographies of Race.	3
GEOG 425	Southeast Asia Urban Field Studies.	3
GEOG 510	Humid Tropical Environments.	3

Canadian Studies

Expand allContract all

Course	Title
CANS 315	Indigenous Art and Culture.

East Asian Studies

[Expand all](#) [Contract all](#)

Course	Title
EAST 211	Introduction: East Asian Culture: China
EAST 213	Introduction: East Asian Culture: Korea
EAST 388	Asian Migrations and Diasporas.
EAST 515	Seminar: Beyond Orientalism.

Economics

[Expand all](#)[Contract all](#)

Course	Title
ECON 209	Macroeconomic Analysis and Applications.
ECON 223	Political Economy of Trade Policy.
ECON 314	Economic Development 2.
ECON 326	Ecological Economics.
ECON 347	Economics of Climate Change.
ECON 416	Topics in Economic Development 2.
ECON 473	Income Distribution.

English

[Expand all](#)[Contract all](#)

Course	Title
ENGL 290	Postcolonial and World Literatures in English
ENGL 440	First Nations and Inuit Literature and Media

Epidemiology and Biostatistics

Expand allContract all

History			
Credits	Expand all		
	Course	Title	Credits
3	HIST 200	Introduction to African History.	3
	HIST 201	Modern African History.	3
Credits	HIST 206	Indian Ocean World History.	3
3	HIST 208	Introduction to East Asian History.	3
3	HIST 209	Introduction to South Asian History.	3
3	HIST 210	Introduction to Latin American History .	3
3	HIST 213	World History, 600-2000.	3
	HIST 218	Modern East Asian History.	3
	HIST 223	Indigenous Peoples and Empires.	3
Credits	HIST 240	Modern History of Islamic Movements.	3
3	HIST 317	Themes in Indian Ocean World History.	3
3	HIST 326	History of the Soviet Union.	3
3	HIST 328	Themes in Modern Chinese History.	3
3	HIST 333	Indigenous Peoples and French.	3
3	HIST 338	Twentieth-Century China.	3
3	HIST 340	History of Modern Egypt.	3
3	HIST 341	Themes in South Asian History.	3
	HIST 361AA	Topics in Canadian Regional History.	3
	HIST 363	Canada 1870-1914.	3
Credits	HIST 366	Themes in Latin American History.	3
3	HIST 382	History of South Africa.	3
3	HIST 389AA	Topics: African Country Survey	3
	HIST 408	Selected Topics in Indigenous History .	3
	HIST 409AA	Topics in Latin American History.	3

or HIST 409AB	Topics in Latin American History.		ISLA 421	Islamic Culture - Indian Subcontinent.	3
HIST 439	History of Women in China.	3	ISLA 430	Islamdom: Baghdad to Cordoba .	3
HIST 528	Indian Ocean World Slave Trade.	3			

Indigenous Studies

Expand allContract all

Course	Title	Credits
INDG 200	Introduction to Indigenous Studies.	3
INDG 420	Indigenous Food Sovereignty.	3

International Development Studies

Expand allContract all

Course	Title	Credits
INTD 250	History of Development.	3
INTD 350	Culture and Development.	3
INTD 352	Disasters and Development .	3
INTD 354	Civil Society and Development .	3
INTD 360	Environmental Challenges in Development.	3
INTD 397AA	Topics in International Development	3
or INTD 397AB	Topics in International Development.	
INTD 398AA	Topics in Conflict and Development.	3
or INTD 398AB	Topics in Conflict and Development.	
INTD 490	Development Research Project.	3
INTD 499	Internship: International Development Studies.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3
ISLA 305	Topics in Islamic History.	3
ISLA 310	Women in Islam.	0-3
ISLA 311	History of the City-Islamic World	3
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 370	The Qur'an: History and Interpretation.	3
ISLA 383	Central Questions in Islamic Law.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3
ISLA 388	Persian Literature.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 392	Arabic Literature as World Literature.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 415	Modern Iran: Anthropological Approach.	3

Latin American & Caribbean Studies

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

1 When topic is relevant to IDS.

Management Core

Expand allContract all

Course	Title	Credits
MGCR 382	International Business.	3

Management, Organizational Behaviour

Expand allContract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Management Policy

Expand allContract all

Course	Title	Credits
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MSUS 402	Systems Thinking and Sustainability.	3

Nutrition

Expand allContract all

Course	Title	Credits
NUTR 501	Nutrition in the Majority World.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 319	Politics of Latin America.	3
POLI 322	Political Change in South Asia.	3
POLI 324	Comparative Politics of Africa.	3
POLI 338	Topics in Comparative Politics 1.	3
POLI 340	Comparative Politics of the Middle East.	3
POLI 341	Foreign Policy: The Middle East.	3
POLI 345	International Organizations.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 349	Foreign Policy: Asia.	3
POLI 350	Global Environmental Politics.	3
POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 359	Topics in International Politics 1.	3
POLI 369	Politics of Southeast Asia.	3

POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 380	Contemporary Chinese Politics.	3
POLI 381	Politics in Japan and South Korea.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3
POLI 423	Politics of Ethno-Nationalism.	3
POLI 435	Identity and Inequality.	3
POLI 441	International Political Economy: Trade.	3
POLI 442	International Relations of Ethnic Conflict.	3
POLI 445	International Political Economy: Monetary Relations.	3
POLI 450	Peacebuilding.	3
POLI 476	Religion and Politics.	3

Religious Studies

Expand allContract all

Course	Title	Credits
RELG 253	Religions of East Asia.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 331	Religion and Globalization.	3
RELG 353	Gandhi: His Life and Thought.	3
RELG 370	Religion and Human Rights.	3
RELG 375	Religion, Politics and Society.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 234	Population and Society.	3
SOCI 307	Globalization.	3
SOCI 309	Health and Illness.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 446	Colonialism and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 550	Developing Societies.	3

Social Work

Expand allContract all

Course	Title	Credits
SWRK 400	Policy and Practice for Refugees.	3
SWRK 532	International Social Work.	3

Urban Planning

Expand allContract all

Course	Title	Credits
URBP 530	Urban Infrastructure and Services in International Context .	3

International Development Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Inst for the St of Development (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Honours in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Honours students must maintain a CGPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

- At least 18 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
- At least 12 credits must be from INTD courses.
- Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

NOTE: Students in the Econ-IDS Joint Honours program are required to take ECON 257D1 Economic Statistics - Honours./ECON 257D2 Economic Statistics - Honours. and therefore cannot also take ECON 227D1 Economic Statistics. /ECON 227D2 Economic Statistics.as part of their IDS program requirements.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
INTD 200	Introduction to International Development.	3
INTD 498AA	Honours Seminar in International Development	3
or INTD 498AB	Honours Seminar in International Development .	

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
ANTH 207	Ethnography Through Film.	3
ANTH 212	Anthropology of Development.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
INTD 350	Culture and Development.	3

Politics, Society and Development

3 credits from the following:

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 245	Introduction aux relations internationales.	3
SOCI 254	Development and Underdevelopment.	3

Methods (6 credits)

6 credits from the following:

When selecting the Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 358	The Process of Anthropological Research.	3

Economics

Course	Title	Credits
ECON 227D1	Economic Statistics.	3
ECON 227D2	Economic Statistics.	3
ECON 437	Methods for Causal Inference.	3

International Development Studies

Course	Title	Credits
INTD 356	Quantitative Methods for Development .	3
INTD 358	Ethnographic Approaches to Development .	3

Political Science

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Sociology

Course	Title	Credits
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 477	Qualitative Methods in Sociology.	3

Thematic (12 credits)

12 credits from the following:

African Studies

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3

Agriculture

Course	Title	Credits
AGRI 325	Sustainable Agriculture Field Course	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3

Agricultural Economics

Course	Title	Credits
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3

Anthropology

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 209	Anthropology of Religion.	3
ANTH 214	Violence, Warfare, Culture.	3

			Course	Title	Credits
ANTH 222	Legal Anthropology.	3	PPHS 511	Fundamentals of Global Health.	3
ANTH 227	Medical Anthropology.	3			
ANTH 302	New Horizons in Medical Anthropology.	3			
ANTH 304	Chinese Culture in Ethnography and Film.	3			
ANTH 308	Political Anthropology 01.	3			
ANTH 318	Globalization and Religion.	3	GEOG 221	Environment and Health.	3
ANTH 322	Social Change in Modern Africa.	3	GEOG 302	Environmental Management 1.	3
ANTH 326	Anthropology of Latin America.	3	GEOG 303	Health Geography.	3
ANTH 327	Anthropology of South Asia.	3	GEOG 310	Development and Livelihoods.	3
ANTH 338	Indigenous Studies of Anthropology.	3	GEOG 311	Economic Geography.	3
ANTH 339	Ecological Anthropology.	3	GEOG 325	New Master-Planned Cities.	3
ANTH 343	Anthropology and the Animal.	3	GEOG 360	Analyzing Sustainability.	3
ANTH 355	Theories of Culture and Society.	3	GEOG 403	Global Health and Environmental Change.	3
ANTH 418	Environment and Development.	3	GEOG 408	Geography of Development.	3
ANTH 438	Topics in Medical Anthropology.	3	GEOG 409	Geographies of Developing Asia.	3
ANTH 512	Political Ecology.	3	GEOG 418	Geographies of Race.	3
ANTH 575	Concepts of Race.	3	GEOG 425	Southeast Asia Urban Field Studies.	3
			GEOG 510	Humid Tropical Environments.	3

Canadian Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
CANS 315	Indigenous Art and Culture.	3	HIST 200	Introduction to African History.	3

East Asian Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EAST 211	Introduction: East Asian Culture: China.	3	HIST 208	Introduction to East Asian History.	3
EAST 213	Introduction: East Asian Culture: Korea.	3	HIST 209	Introduction to South Asian History.	3
EAST 388	Asian Migrations and Diasporas.	3	HIST 210	Introduction to Latin American History .	3
EAST 515	Seminar: Beyond Orientalism.	3	HIST 213	World History, 600-2000.	3
			HIST 218	Modern East Asian History.	3
			HIST 223	Indigenous Peoples and Empires.	3

Economics

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications.	3	HIST 240	Modern History of Islamic Movements.	3
ECON 223	Political Economy of Trade Policy.	3	HIST 317	Themes in Indian Ocean World History.	3
ECON 314	Economic Development 2.	3	HIST 326	History of the Soviet Union.	3
ECON 326	Ecological Economics.	3	HIST 328	Themes in Modern Chinese History.	3
ECON 347	Economics of Climate Change.	3	HIST 333	Indigenous Peoples and French.	3
ECON 416	Topics in Economic Development 2.	3	HIST 338	Twentieth-Century China.	3
ECON 473	Income Distribution.	3	HIST 340	History of Modern Egypt.	3
			HIST 341	Themes in South Asian History.	3
			HIST 360	Latin America since 1825.	3

English

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ENGL 290	Postcolonial and World Literatures in English.	3	HIST 363	Canada 1870-1914.	3
ENGL 440	First Nations and Inuit Literature and Media.	3	HIST 366	Themes in Latin American History.	3
			HIST 382	History of South Africa.	3
			HIST 389AA	Topics: African Country Survey	3
			HIST 408	Selected Topics in Indigenous History .	3
			HIST 409AA	Topics in Latin American History.	3

Epidemiology and Biostatistics

Expand allContract all

or HIST 409AB	Topics in Latin American History.		ISLA 383	Central Questions in Islamic Law.	3
HIST 439	History of Women in China.	3	ISLA 385	Poetics and Politics in Arabic Literature.	3
HIST 528	Indian Ocean World Slave Trade.	3	ISLA 388	Persian Literature.	3
Indigenous Studies			ISLA 390	Islamic Reform and Radicalism: Middle East	3
Expand all			ISLA 392	Arabic Literature as World Literature.	3
Contract all			ISLA 411	History: Middle-East 1918-1945.	3
Course	Title	Credits	ISLA 415	Modern Iran: Anthropological Approach.	3
INDG 200	Introduction to Indigenous Studies.	3	ISLA 421	Islamic Culture - Indian Subcontinent.	3
INDG 420	Indigenous Food Sovereignty.	3	ISLA 430	Islamdom: Baghdad to Cordoba .	3

International Development Studies

Expand all

Contract all

Course	Title	Credits	Course	Title	Credits
INTD 250	History of Development.	3	LACS 497	Research Seminar: Latin America and the Caribbean.	3
INTD 350	Culture and Development.	3			
INTD 352	Disasters and Development .	3			
INTD 354	Civil Society and Development .	3			
INTD 360	Environmental Challenges in Development.	3			
INTD 397AA	Topics in International Development	3			
or INTD 397AB	Topics in International Development.				
INTD 398AA	Topics in Conflict and Development.	3			
or INTD 398AB	Topics in Conflict and Development.				
INTD 490	Development Research Project.	3			
INTD 491	Honours Thesis.	3			
INTD 497AA	Advanced Topics in International Development.	3			
or INTD 497AB	Advanced Topics in International Development.				
or INTD 497AC	Advanced topics in International Development				
or INTD 497AD	Advanced topics in International Development				
INTD 499	Internship: International Development Studies.	3			

Islamic Studies

Expand all

Contract all

Course	Title	Credits	Course	Title	Credits
ISLA 200	Islamic Civilization.	3			
ISLA 210	Muslim Societies.	3			
ISLA 305	Topics in Islamic History.	3			
ISLA 310	Women in Islam.	0-3			
ISLA 311	History of the City-Islamic World	3			
ISLA 325	Introduction to Shi'i Islam.	3			
ISLA 330	Islamic Mysticism: Sufism.	3			
ISLA 355	Modern History of the Middle East.	3			
ISLA 360	Islam and Politics in Africa	3			
ISLA 365	Middle East Since the 1970's.	3			
ISLA 370	The Qur'an: History and Interpretation.	3			

Latin American & Caribbean Studies

Expand all

Contract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

¹ When topic is relevant to IDS.

Management Core

Expand all

Contract all

Course	Title	Credits
MGCR 382	International Business.	3

Management, Organizational Behaviour

Expand all

Contract all

Course	Title	Credits
ORGB 380	Cross Cultural Management.	3

Management Policy

Expand all

Contract all

Course	Title	Credits
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MGPO 402	Dynamic Cities.	3

Nutrition

Expand all

Contract all

Course	Title	Credits
NUTR 501	Nutrition in the Majority World.	3

Political Science

Expand all

Contract all

Course	Title	Credits
POLI 319	Politics of Latin America.	3
POLI 322	Political Change in South Asia.	3
POLI 324	Comparative Politics of Africa.	3
POLI 338	Topics in Comparative Politics 1.	3
POLI 340	Comparative Politics of the Middle East.	3
POLI 341	Foreign Policy: The Middle East.	3

Course	Title	Credits
POLI 345	International Organizations.	3
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 349	Foreign Policy: Asia.	3
POLI 350	Global Environmental Politics.	3
POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 359	Topics in International Politics 1.	3
POLI 369	Politics of Southeast Asia.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 380	Contemporary Chinese Politics.	3
POLI 381	Politics in Japan and South Korea.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3
POLI 423	Politics of Ethno-Nationalism.	3
POLI 435	Identity and Inequality.	3
POLI 441	International Political Economy: Trade.	3
POLI 442	International Relations of Ethnic Conflict.	3
POLI 445	International Political Economy: Monetary Relations.	3
POLI 450	Peacebuilding.	3
POLI 476	Religion and Politics.	3

Religious Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
RELG 253	Religions of East Asia.	3	AFRI 200	Introduction to African Studies.	3
RELG 309	World Religions and Cultures They Create..	3	AFRI 598	Research Seminar in African Studies.	3
RELG 331	Religion and Globalization.	3			
RELG 370	Religion and Human Rights.	3			
RELG 375	Religion, Politics and Society.	3			

Sociology

Expand allContract all

Course	Title	Credits	Course	Title	Credits
SOCI 212	International Migration.	3			
SOCI 234	Population and Society.	3			
SOCI 307	Globalization.	3			
SOCI 309	Health and Illness.	3			
SOCI 370	Sociology: Gender and Development.	3			
SOCI 400	Comparative Migration and Citizenship.	3			
SOCI 446	Colonialism and Society.	3			
SOCI 519	Gender and Globalization.	3			
SOCI 520	Migration and Immigrant Groups.	3			
SOCI 550	Developing Societies.	3			

Social Work

Expand allContract all

Course	Title	Credits	Course	Title	Credits
SWRK 400	Policy and Practice for Refugees.	3	ANTH 322	Social Change in Modern Africa.	3
SWRK 532	International Social Work.	3	HIST 200	Introduction to African History.	3

African Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 598	Research Seminar in African Studies.	3

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

3 credits from:

Expand allContract all

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
POLI 324	Comparative Politics of Africa.	3

Group B

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

African Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
AFRI 480	Honours Thesis.	3
AFRI 481	Special Topics 1.	3
AFRI 499	Arts Internships: African Studies.	3
HIST 579D1	Seminar: African History.	3
HIST 579D2	Seminar: African History.	3

Anthropology

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 416	Environment/Development: Africa.	3

Economics

[Expand all](#)[Contract all](#)

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
ECON 416	Topics in Economic Development 2.	3

English

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENGL 320	Postcolonial Literature. ¹	3
ENGL 352	Theories of Difference. ¹	3
ENGL 421	African Literature.	3

¹ Note: Course is counted only when African materials are taught.

Geography

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 216	Geography of the World Economy.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 404	Environmental Management 2.	3
GEOG 408	Geography of Development.	3
GEOG 416	Africa South of the Sahara.	3

History

[Expand all](#)[Contract all](#)

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 381	Colonial Africa.	3
HIST 382	History of South Africa.	3

HIST 498 Independent Research.

3

HIST 528 Indian Ocean World Slave Trade.

3

Islamic Studies

[Expand all](#)[Contract all](#)

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 360	Islam and Politics in Africa	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 530	Advanced Sufism	3

Political Science

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 324	Comparative Politics of Africa.	3
POLI 522	Seminar: Comparative Politics 1.	1

¹ Note: Course is counted only when African materials are taught.

Sociology

[Expand all](#)[Contract all](#)

Course	Title	Credits
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 446	Colonialism and Society.	3
SOCI 484	Emerging Democratic States.	3
SOCI 550	Developing Societies.	3

African Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 598	Research Seminar in African Studies.	3

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

Expand allContract all

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
POLI 324	Comparative Politics of Africa.	3

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

Expand allContract all

Course	Title	Credits
AFRI 401	Swahili Language and Culture.	3
AFRI 480	Honours Thesis.	3
AFRI 481	Special Topics 1.	3
AFRI 499	Arts Internships: African Studies.	3
HIST 579D1	Seminar: African History.	3
HIST 579D2	Seminar: African History.	3

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 416	Environment/Development: Africa.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
ECON 313	Economic Development 1.	3
ECON 416	Topics in Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 320	Postcolonial Literature. ¹	3
ENGL 352	Theories of Difference. ¹	3
ENGL 421	African Literature.	3

¹ Note: Course is counted only when African materials are taught.

Geography

Expand allContract all

Course	Title	Credits
GEOG 216	Geography of the World Economy.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 404	Environmental Management 2.	3
GEOG 408	Geography of Development.	3
GEOG 416	Africa South of the Sahara.	3

History

Expand allContract all

Course	Title	Credits
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
HIST 381	Colonial Africa.	3
HIST 382	History of South Africa.	3
HIST 498	Independent Research.	3
HIST 528	Indian Ocean World Slave Trade.	3

Islamic Studies

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 360	Islam and Politics in Africa	3
ISLA 375	Sufi Women	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 530	Advanced Sufism	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 324	Comparative Politics of Africa.	3
POLI 522	Seminar: Comparative Politics 1.	3

¹ Note: Course is counted only when African materials are taught.

Sociology

Expand allContract all

Course	Title	Credits
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 446	Colonialism and Society.	3
SOCI 484	Emerging Democratic States.	3
SOCI 550	Developing Societies.	3

African Studies Joint Honours Component (B.A. & Sc.) (36 credits)**Offered by:** Islamic Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36**Program Description**

The Joint Honours program in African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable). Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations a minimum CGPA of 3.00 in general.

At least 9 of the 36 credits must be at the 400 level or above.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
AFRI 200	Introduction to African Studies.	3
AFRI 480	Honours Thesis. ¹	3
AFRI 598	Research Seminar in African Studies.	3

¹ Honours Thesis course must be taken for the AFRI Joint Honours component. Students must meet the specific requirements regarding Thesis credits of their second program in addition to the AFRI 480 Honours Thesis. Honours Thesis.

Complementary Courses (27 credits)**Group A**

9 credits from:

Expand allContract all

Course	Title	Credits
ANTH 322	Social Change in Modern Africa.	3
HIST 200	Introduction to African History.	3
HIST 201	Modern African History.	3
POLI 324	Comparative Politics of Africa.	3

Group B

18 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

Expand allContract all

Course	Title	Credits			
AFRI 401	Swahili Language and Culture.	3	HIST 382	History of South Africa.	3
AFRI 481	Special Topics 1.	3	HIST 498	Independent Research.	3
AFRI 499	Arts Internships: African Studies.	3	HIST 528	Indian Ocean World Slave Trade.	3

Anthropology

Expand allContract all

Course	Title	Credits			
ANTH 212	Anthropology of Development.	3	ISLA 221D1	Introductory Arabic.	4.5
ANTH 222	Legal Anthropology.	3	ISLA 221D2	Introductory Arabic.	4.5
ANTH 322	Social Change in Modern Africa.	3	ISLA 360	Islam and Politics in Africa	3
ANTH 355	Theories of Culture and Society.	3	ISLA 375	Sufi Women	3
ANTH 416	Environment/Development: Africa.	3	ISLA 410	History: Middle-East 1798-1918.	3
ANTH 451	Research in Society and Development in Africa.	3	ISLA 530	Advanced Sufism	3

Economics

Expand allContract all

Course	Title	Credits			
ECON 208	Microeconomic Analysis and Applications.	3	POLI 227	Introduction to Comparative Politics - Global South.	3
ECON 313	Economic Development 1.	3	POLI 324	Comparative Politics of Africa. ¹	3
ECON 314	Economic Development 2.	3	POLI 522	Seminar: Comparative Politics 1.	3

English

Expand allContract all

Course	Title	Credits			
ENGL 320	Postcolonial Literature. ¹	3			
ENGL 352	Theories of Difference.	3			
ENGL 421	African Literature.	3			

¹ Note: Course is counted only when African materials are taught.

Geography

Expand allContract all

Course	Title	Credits			
GEOG 216	Geography of the World Economy.	3	SOCI 365	Health and Development.	3
GEOG 302	Environmental Management 1.	3	SOCI 370	Sociology: Gender and Development.	3
GEOG 403	Global Health and Environmental Change. ¹	3	SOCI 446	Colonialism and Society.	3
GEOG 404	Environmental Management 2.	3	SOCI 484	Emerging Democratic States.	3
GEOG 408	Geography of Development. ¹	3	SOCI 550	Developing Societies.	3
GEOG 416	Africa South of the Sahara. ¹	3			
GEOG 423	Dilemmas of Development.	3			
GEOG 451	Research in Society and Development in Africa. ¹	3			
GEOG 493	Health and Environment in Africa.	3			

¹ Note: Normally offered as field courses (in African Studies Field Semester)

History

Expand allContract all

Course	Title	Credits			
HIST 200	Introduction to African History.	3			
HIST 201	Modern African History.	3			

Islamic Studies

Expand allContract all

Course	Title	Credits			
ISLA 221D1	Introductory Arabic.	4.5			
ISLA 221D2	Introductory Arabic.	4.5			
ISLA 360	Islam and Politics in Africa	3			
ISLA 375	Sufi Women	3			
ISLA 410	History: Middle-East 1798-1918.	3			
ISLA 530	Advanced Sufism	3			

Political Science

Expand allContract all

Course	Title	Credits			
POLI 227	Introduction to Comparative Politics - Global South.	3			
POLI 324	Comparative Politics of Africa. ¹	3			
POLI 522	Seminar: Comparative Politics 1.	3			

¹ Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Political Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Political Science students.

Sociology

Expand allContract all

Course	Title	Credits			
SOCI 365	Health and Development.	3			
SOCI 370	Sociology: Gender and Development.	3			
SOCI 446	Colonialism and Society.	3			
SOCI 484	Emerging Democratic States.	3			
SOCI 550	Developing Societies.	3			

Arabic Language Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Arabic Language provides students with comprehensive training in listening, speaking, reading, and writing in Arabic.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Arabic language (3 levels) from the list below.

In the case of Introductory Arabic (9 credits), the extra 3 credits will be counted as electives.

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian Language Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Persian Language provides students with comprehensive training in listening, speaking, reading, and writing in Persian.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Persian language (3 levels) from the list below.

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3

ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish Language Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Turkish Language provides students with comprehensive training in listening, speaking, reading, and writing in Turkish.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Turkish language (3 levels) from the list below.

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 434D1	Higher Intermediate Turkish.	3
ISLA 434D2	Higher Intermediate Turkish.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu Language Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Urdu Language provides students with comprehensive training in listening, speaking, reading, and writing in Urdu.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Urdu language (3 levels) from the list below:

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

World Islamic and Middle East Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the languages, textual traditions, and social life of Muslims across different times and places.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits at the 200 level, in non-language ISLA courses;

6 credits at the 300 level and Higher, in non-language ISLA courses;

9 credits at any level. If non-language courses are selected, no more than 6 credits in non-language courses overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

Non-Language Courses (9-18 credits)

ISLA 200-Level

3 credits from:

Expand allContract all

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3

ISLA 300 Level and Higher

6 credits from:

Course	Title	Credits
ISLA 300	Special Topics 7.	3
ISLA 305	Topics in Islamic History.	3
ISLA 310	Women in Islam.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 320	Art of Islam.	3
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 365	Middle East Since the 1970's.	3
ISLA 370	The Qur'an: History and Interpretation.	3
ISLA 375	Sufi Women	3
ISLA 380	Islamic Philosophy and Theology.	3
ISLA 383	Central Questions in Islamic Law.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3
ISLA 388	Persian Literature.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 392	Arabic Literature as World Literature.	3
ISLA 395	Melancholic Migrants	3
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 415	Modern Iran: Anthropological Approach.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 488	Tales of Wonder-Islamic World.	3
ISLA 489	Special Topics 6.	3
ISLA 499	World Islamic and Middle East Studies Internship.	3
ISLA 502	Art in the Age of Empires.	3
ISLA 505	Islam: Origin and Early Development.	3
ISLA 506	Revolutions: Arab Middle East and North Africa.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3
ISLA 512	Art of the Ottoman Empire.	3
ISLA 515	The Medieval School in Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3
ISLA 530	Advanced Sufism	3
ISLA 555	Urdu Poetry.	3

ISLA 580	Ottoman Institutions.	3	Arabic	
ISLA 581	Special Topics 1.	3	Expand all	Contract all
ISLA 582	Special Topics 2.	3	Course	Title
ISLA 585	Arab Women's Literature.	3	ISLA 221D1	Introductory Arabic.

Non-ISLA Courses

0-9 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits	ISLA 423D1	Higher Intermediate Arabic.	3
ANTH 209	Anthropology of Religion.	3	ISLA 423D2	Higher Intermediate Arabic.	3
ANTH 318	Globalization and Religion.	3	ISLA 524	Advanced Arabic 1.	3
ANTH 327	Anthropology of South Asia.	3	ISLA 525	Advanced Arabic 2.	3
HIST 209	Introduction to South Asian History.	3	ISLA 526	Colloquial Arabic.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu

Expand all **Contract all**

Expand or contract all		
Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

ISLA Language Courses

0-9 credits in one or more language(s) from:

World Islamic and Middle East Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu. One level is 6 credits. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits may count toward the 6-9 credits at any level category of the complementary courses' requirement.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

21-24 credits (21 if the extra Introductory Arabic credits are used) of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits of 200-level non-language ISLA courses;

6 credits of 300-level non-language ISLA courses;

6 credits of 400-/500-level non-language ISLA courses;

6-9 credits at any level, including more language courses, but no more than 6 non-language credits overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

Languages (Two levels)

12 credits from:

Arabic

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 434D1	Higher Intermediate Turkish.	3
ISLA 434D2	Higher Intermediate Turkish.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

Urdu

Expand allContract all

Course	Title	Credits	ISLA 400-/500-Level	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3	6 credits from:	
ISLA 251D2	Introductory Urdu-Hindi.	3	Expand allContract all	
ISLA 352D1	Intermediate Urdu-Hindi.	3	Course	Title
ISLA 352D2	Intermediate Urdu-Hindi.	3	ISLA 410	History: Middle-East 1798-1918.
ISLA 553	Advanced Urdu-Hindi 1.	3	ISLA 411	History: Middle-East 1918-1945.
ISLA 554	Advanced Urdu-Hindi 2.	3	ISLA 415	Modern Iran: Anthropological Approach.
ISLA 555	Urdu Poetry.	3	ISLA 420	Indo-Islamic Civilization: Medieval.
ISLA 200-Level				
3 credits from:				
Expand allContract all				
Course	Title	Credits		
ISLA 200	Islamic Civilization.	3	ISLA 421	Islamic Culture - Indian Subcontinent.
ISLA 210	Muslim Societies.	3	ISLA 430	Islamdom: Baghdad to Cordoba .
ISLA 300-Level				
6 credits from:				
Expand allContract all				
Course	Title	Credits		
ISLA 300	Special Topics 7.	3	ISLA 488	Tales of Wonder-Islamic World.
ISLA 305	Topics in Islamic History.	3	ISLA 489	Special Topics 6.
ISLA 310	Women in Islam.	3	ISLA 502	Art in the Age of Empires.
ISLA 311	History of the City-Islamic World	3	ISLA 505	Islam: Origin and Early Development.
ISLA 315	Ottoman State and Society to 1839.	3	ISLA 506	Revolutions: Arab Middle East and North Africa.
ISLA 320	Art of Islam.	3	ISLA 511	Medieval Islam, 10th-12th Century.
ISLA 325	Introduction to Shi'i Islam.	3	ISLA 512	Art of the Ottoman Empire.
ISLA 330	Islamic Mysticism: Sufism.	3	ISLA 515	The Medieval School in Islam.
ISLA 355	Modern History of the Middle East.	3	ISLA 516	Medieval Islam, 13th-15th Century.
ISLA 360	Islam and Politics in Africa	3	ISLA 526	Colloquial Arabic.
ISLA 365	Middle East Since the 1970's.	3	ISLA 530	Advanced Sufism
ISLA 370	The Qur'an: History and Interpretation.	3	ISLA 555	Urdu Poetry.
ISLA 375	Sufi Women	3	ISLA 580	Ottoman Institutions.
ISLA 380	Islamic Philosophy and Theology.	3	ISLA 581	Special Topics 1.
ISLA 383	Central Questions in Islamic Law.	3	ISLA 582	Special Topics 2.
ISLA 385	Poetics and Politics in Arabic Literature.	3	ISLA 585	Arab Women's Literature.
ISLA 388	Persian Literature.	3	Non-ISLA Courses	
ISLA 390	Islamic Reform and Radicalism: Middle East	3	0-9 credits from:	
ISLA 392	Arabic Literature as World Literature.	3	Expand allContract all	
ISLA 395	Melancholic Migrants	3	Course	Title
ISLA 499	World Islamic and Middle East Studies Internship.	3	ANTH 209	Anthropology of Religion.

¹ As per course restriction, ISLA 499 World Islamic and Middle East Studies Internship does not fulfil ISLA 400-/500-level requirements.

JWST 261	History of Jewish Philosophy and Thought.	3	Degree Requirements – B.A. students
JWST 312	Modern Jewish History.	3	To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.
JWST 320D1	Intermediate Hebrew.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
JWST 320D2	Intermediate Hebrew.	3	
JWST 323	The Israeli Novel.	3	
JWST 334	Jews and Muslims: A Modern History.	3	
JWST 338	Jewish Philosophy and Thought 2.	3	Degree Requirements – B.A. & Sc. students
JWST 340D1	Advanced Hebrew.	3	<i>This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.</i>
JWST 340D2	Advanced Hebrew.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
JWST 348	Modern Jewish Studies.	3	
JWST 366	History of Zionism.	3	
JWST 367	Hebrew through Israeli Cinema.	3	
JWST 370	Israeli Popular Culture.	3	
PHIL 356	Early Medieval Philosophy.	3	
POLI 340	Comparative Politics of the Middle East.	3	
POLI 341	Foreign Policy: The Middle East.	3	
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	
RELG 204	Judaism, Christianity and Islam.	3	
RELG 307	Bible, Quran and Interpretations.	3	
RELG 309	World Religions and Cultures They Create..	3	
RELG 440	Global Islam.	3	

World Islamic and Middle East Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs."

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a program GPA of 3.30 in their World Islamic & Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Course (3 credits)

Expand all Contract all

Course	Title	Credits
ISLA 495	World Islamic and Middle East Studies Research Seminar.	3

Complementary Courses (33 credits)

33 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu (lists below). One level is 6 credits. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits may count toward the 3-6 credits at any level category of the complementary courses' requirement.

NOTE: Hebrew courses (JWST 220D1/D2, 320D1/D2, 340D1/D2), listed under Non-ISLA Courses, are considered non-language courses.

18-21 credits (18 if the 3 extra introductory Arabic credits are used), distributed as follows:

3 credits of 100-/200-level non-language ISLA courses;

9 credits of 300-level non-language ISLA courses;

3 credits of 400-/500-level non-language ISLA courses;

3-6 credits at any level, including more language courses, but no more than 6 credits in non-language courses overall at the 200-level. Students may fulfill these credits by taking complementary courses from the list of the Non-ISLA Courses below.

Languages (Two levels)

12 credits from:

Arabic

Expand allContract all

Course	Title	Credits
ISLA 221D1	Introductory Arabic.	4.5
ISLA 221D2	Introductory Arabic.	4.5
ISLA 322	Lower Intermediate Arabic.	6
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
ISLA 423D1	Higher Intermediate Arabic.	3
ISLA 423D2	Higher Intermediate Arabic.	3
ISLA 524	Advanced Arabic 1.	3
ISLA 525	Advanced Arabic 2.	3
ISLA 526	Colloquial Arabic.	3

ISLA 200-Level

3 credits from:

Course	Title	Credits
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3

ISLA 300-Level

9 credits from:

Course	Title	Credits
ISLA 300	Special Topics 7.	3
ISLA 305	Topics in Islamic History.	3
ISLA 310	Women in Islam.	3
ISLA 311	History of the City-Islamic World	3
ISLA 315	Ottoman State and Society to 1839.	3
ISLA 320	Art of Islam.	3
ISLA 325	Introduction to Shi'i Islam.	3
ISLA 330	Islamic Mysticism: Sufism.	3
ISLA 355	Modern History of the Middle East.	3
ISLA 360	Islam and Politics in Africa	3
ISLA 370	The Qur'an: History and Interpretation.	3
ISLA 375	Sufi Women	3
ISLA 380	Islamic Philosophy and Theology.	3
ISLA 383	Central Questions in Islamic Law.	3
ISLA 385	Poetics and Politics in Arabic Literature.	3
ISLA 388	Persian Literature.	3
ISLA 390	Islamic Reform and Radicalism: Middle East	3
ISLA 392	Arabic Literature as World Literature.	3
ISLA 395	Melancholic Migrants	3
ISLA 499	World Islamic and Middle East Studies Internship.	3

Persian

Expand allContract all

Course	Title	Credits
ISLA 241D1	Introductory Persian.	3
ISLA 241D2	Introductory Persian.	3
ISLA 342D1	Lower Intermediate Persian.	3
ISLA 342D2	Lower Intermediate Persian.	3
ISLA 443D1	Upper Intermediate Persian.	3
ISLA 443D2	Upper Intermediate Persian.	3
ISLA 545	Advanced Persian 1.	3
ISLA 546	Advanced Persian 2.	3

Turkish

Expand allContract all

Course	Title	Credits
ISLA 232D1	Introductory Turkish.	3
ISLA 232D2	Introductory Turkish.	3
ISLA 333D1	Lower Intermediate Turkish.	3
ISLA 333D2	Lower Intermediate Turkish.	3
ISLA 434D1	Higher Intermediate Turkish.	3
ISLA 434D2	Higher Intermediate Turkish.	3
ISLA 535D1	Advanced Turkish.	3
ISLA 535D2	Advanced Turkish.	3
ISLA 560	Ottoman Turkish	3

ISLA 400-/500-Level

6 credits from:

Course	Title	Credits
ISLA 410	History: Middle-East 1798-1918.	3
ISLA 411	History: Middle-East 1918-1945.	3
ISLA 415	Modern Iran: Anthropological Approach.	3
ISLA 420	Indo-Islamic Civilization: Medieval.	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 430	Islamdom: Baghdad to Cordoba .	3
ISLA 488	Tales of Wonder-Islamic World.	3

Urdu

Expand allContract all

Course	Title	Credits
ISLA 251D1	Introductory Urdu-Hindi.	3
ISLA 251D2	Introductory Urdu-Hindi.	3
ISLA 352D1	Intermediate Urdu-Hindi.	3
ISLA 352D2	Intermediate Urdu-Hindi.	3
ISLA 553	Advanced Urdu-Hindi 1.	3
ISLA 554	Advanced Urdu-Hindi 2.	3
ISLA 555	Urdu Poetry.	3

ISLA 489	Special Topics 6.	3	POLI 340	Comparative Politics of the Middle East.	3
ISLA 502	Art in the Age of Empires.	3	POLI 341	Foreign Policy: The Middle East.	3
ISLA 505	Islam: Origin and Early Development.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
ISLA 506	Revolutions: Arab Middle East and North Africa.	3	RELG 204	Judaism, Christianity and Islam.	3
ISLA 511	Medieval Islam, 10th-12th Century.	3	RELG 307	Bible, Quran and Interpretations.	3
ISLA 512	Art of the Ottoman Empire.	3	RELG 309	World Religions and Cultures They Create..	3
ISLA 515	The Medieval School in Islam.	3	RELG 440	Global Islam.	3
ISLA 516	Medieval Islam, 13th-15th Century.	3			
ISLA 530	Advanced Sufism	3			
ISLA 555	Urdu Poetry.	3			
ISLA 580	Ottoman Institutions.	3			
ISLA 585	Arab Women's Literature.	3			

Non-ISLA Courses

0-6 credits from:

Expand allContract all

Course	Title	Credits	In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.
ANTH 209	Anthropology of Religion.	3	This program may be expanded to the Major Concentration Jewish Studies.
ANTH 318	Globalization and Religion.	3	
ANTH 327	Anthropology of South Asia.	3	
HIST 209	Introduction to South Asian History.	3	
HIST 240	Modern History of Islamic Movements.	3	
HIST 305	Themes in Middle East History	3	18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.
HIST 340	History of Modern Egypt.	3	
HIST 341	Themes in South Asian History.	3	
HIST 435	Topics in South Asian History.	3	
HIST 446	Topics in Middle East History.	3	Consultation with an adviser is strongly recommended.
HIST 591D1	Modern Middle East History.	3	
HIST 591D2	Modern Middle East History.	3	
JWST 220D1	Introductory Hebrew.	3	
JWST 220D2	Introductory Hebrew.	3	
JWST 245	Jewish Life in the Islamic World.	3	
JWST 261	History of Jewish Philosophy and Thought.	3	
JWST 312	Modern Jewish History.	3	
JWST 320D1	Intermediate Hebrew.	3	
JWST 320D2	Intermediate Hebrew.	3	
JWST 323	The Israeli Novel.	3	
JWST 334	Jews and Muslims: A Modern History.	3	
JWST 338	Jewish Philosophy and Thought 2.	3	
JWST 340D1	Advanced Hebrew.	3	
JWST 340D2	Advanced Hebrew.	3	
JWST 348	Modern Jewish Studies.	3	
JWST 366	History of Zionism.	3	
JWST 367	Hebrew through Israeli Cinema.	3	
JWST 370	Israeli Popular Culture.	3	
PHIL 356	Early Medieval Philosophy.	3	

Jewish Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Jewish Studies (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 18

Program Description

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
RELG 307	Bible, Quran and Interpretations.	3

East European Studies

Expand allContract all

Course	Title	Credits
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3

JWST 206	Introduction to Yiddish Literature.	3	JWST 337	Jewish Philosophy and Thought 1.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 338	Jewish Philosophy and Thought 2.	3
JWST 240	The Holocaust.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 366	History of Zionism.	3
JWST 366	History of Zionism.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 383	Holocaust Literature.	3			

Language and Literature - Hebrew		
Expand allContract all		
Course	Title	Credits
JWST 199	FYS: Images - Jewish Identities.	3
JWST 220D1	Introductory Hebrew.	3
JWST 220D2	Introductory Hebrew.	3
JWST 225	Literature and Society.	3
JWST 320D1	Intermediate Hebrew.	3
JWST 320D2	Intermediate Hebrew.	3
JWST 323	The Israeli Novel.	3
JWST 325	Israeli Literature in Translation.	3
JWST 340D1	Advanced Hebrew.	3
JWST 340D2	Advanced Hebrew.	3
JWST 367	Hebrew through Israeli Cinema.	3
JWST 370	Israeli Popular Culture.	3
JWST 383	Holocaust Literature.	3
JWST 403	Contemporary Hebrew Literature.	3

Jewish History

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
HIST 572D1	Seminar in Jewish History.	3
HIST 572D2	Seminar in Jewish History.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 240	The Holocaust.	3
JWST 306	The American Jewish Community.	3
JWST 314	Denominations in North American Judaism.	3
JWST 315	Modern Liberal Jewish Thought.	3
JWST 361	The Shtetl: 1500-1897.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3

Jewish Thought

Expand allContract all

Course	Title	Credits
EDER 318	Teaching the Jewish Liturgy.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3
JWST 201	Jewish Law.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 261	History of Jewish Philosophy and Thought.	3
JWST 314	Denominations in North American Judaism.	3
JWST 315	Modern Liberal Jewish Thought.	3
JWST 383	Holocaust Literature.	3
JWST 387	Modern Jewish Authors.	3
JWST 480	Advanced Yiddish 1.	3
JWST 481	Advanced Yiddish 2.	3
JWST 485	Tutorial in Yiddish Literature.	3
JWST 486	Tutorial in Yiddish Literature.	3

Modern Jewish Studies

Expand allContract all

Course	Title	Credits
EDER 319	Teaching the Holocaust.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3

			Course	Title	Credits
HIST 572D1	Seminar in Jewish History.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 572D2	Seminar in Jewish History.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	HIST 307	Jews in Poland.	3
JWST 240	The Holocaust.	3	HIST 427	The Hasidic Movement.	3
JWST 309	Jews in Film.	3	HIST 572D1	Seminar in Jewish History.	3
JWST 346	Modern Jewish Studies.	3	HIST 572D2	Seminar in Jewish History.	3
JWST 348	Modern Jewish Studies.	3			
JWST 349	Modern Jewish Studies.	3			
JWST 351	Studies in Modern Jewish Literature.	3			
JWST 359	Topics in Jewish Philosophy 2.	3			
JWST 361	The Shtetl: 1500-1897.	3			
JWST 365	Modern Jewish Ideologies.	3			
JWST 366	History of Zionism.	3			
JWST 383	Holocaust Literature.	3			
JWST 386	American Jewish Literature.	3			
JWST 387	Modern Jewish Authors.	3			
JWST 558	Topics: Modern Jewish Thought.	3			
JWST 585	Tutorial: Eastern European Studies 1.	3			
JWST 586	Tutorial: Eastern European Studies 2.	3			
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3			

Rabbinic Studies

Expand allContract all

Course	Title	Credits	
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
HIST 219	Jewish History: 1000 - 2000.	3	
JWST 201	Jewish Law.	3	
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	
JWST 217	Jewish Studies 3: 1000 - 2000.	3	
JWST 316	Social and Ethical Issues Jewish Law 1.	3	
JWST 345	Introduction to Rabbinic Literature.	3	
JWST 358	Topics in Jewish Philosophy 1.	3	
JWST 359	Topics in Jewish Philosophy 2.	3	
JWST 474	Maimonides' Mishneh Torah.	3	
JWST 538	Early Rabbinic Parshanut 1.	3	

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

Expand allContract all

Jewish Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies concentrations are placed into the category "Complementary Courses".

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

36 credits in Jewish Studies of which 24 are normally taken at the 300 level or above, selected as described below. Consultation with an adviser is strongly recommended.

Jewish History

6 credits (minimum) in the history of Jewish civilization to be chosen from:

Expand allContract all

Course	Title	Credits			
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	JWST 361	The Shtetl: 1500-1897.	3
HIST 219	Jewish History: 1000 - 2000.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 211	Jewish Studies 1: Biblical Period.	3	JWST 366	History of Zionism.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	JWST 381	God and Devil in Modern Yiddish Literature.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 383	Holocaust Literature.	3
			JWST 485	Tutorial in Yiddish Literature.	3
			JWST 486	Tutorial in Yiddish Literature.	3
			JWST 585	Tutorial: Eastern European Studies 1.	3
			JWST 586	Tutorial: Eastern European Studies 2.	3

Jewish Language

6 credits reflecting an advanced level of competence in either Hebrew or Yiddish chosen from the following:

Expand allContract all

Course	Title	Credits			
JWST 327	A Book of the Bible.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 330	Topics in the Hebrew Bible.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 340D1	Advanced Hebrew.	3	HIST 307	Jews in Poland.	3
JWST 340D2	Advanced Hebrew.	3	HIST 427	The Hasidic Movement.	3
JWST 367	Hebrew through Israeli Cinema.	3	HIST 572D1	Seminar in Jewish History.	3
JWST 370	Israeli Popular Culture.	3	HIST 572D2	Seminar in Jewish History.	3

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

Expand allContract all

Course	Title	Credits			
JWST 211	Jewish Studies 1: Biblical Period.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 330	Topics in the Hebrew Bible.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 510	Jewish Bible Interpretation 1.	3	HIST 427	The Hasidic Movement.	3
JWST 511	Jewish Bible Interpretation 2.	3	JWST 201	Jewish Law.	3
JWST 520	Bible Interpretation in Antiquity.	3	JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 538	Early Rabbinic Parshanut 1.	3	JWST 217	Jewish Studies 3: 1000 - 2000.	3
RELG 307	Bible, Quran and Interpretations.	3	JWST 261	History of Jewish Philosophy and Thought.	3

East European Studies

Expand allContract all

Course	Title	Credits			
HIST 307	Jews in Poland.	3	JWST 314	Denominations in North American Judaism.	3
HIST 427	The Hasidic Movement.	3	JWST 315	Modern Liberal Jewish Thought.	3
JWST 206	Introduction to Yiddish Literature.	3	JWST 337	Jewish Philosophy and Thought 1.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 338	Jewish Philosophy and Thought 2.	3
JWST 240	The Holocaust.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 359	Topics in Jewish Philosophy 2.	3

JWST 365	Modern Jewish Ideologies.	3	JWST 309	Jews in Film.	3
JWST 366	History of Zionism.	3	JWST 346	Modern Jewish Studies.	3
JWST 474	Maimonides' Mishneh Torah.	3	JWST 348	Modern Jewish Studies.	3
JWST 558	Topics: Modern Jewish Thought.	3	JWST 349	Modern Jewish Studies.	3

Language and Literature - Hebrew

Expand allContract all

Course	Title	Credits	Course	Title	Credits
JWST 199	FYS: Images - Jewish Identities.	3	JWST 361	The Shtetl: 1500-1897.	3
JWST 220D1	Introductory Hebrew.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 220D2	Introductory Hebrew.	3	JWST 366	History of Zionism.	3
JWST 225	Literature and Society.	3	JWST 383	Holocaust Literature.	3
JWST 320D1	Intermediate Hebrew.	3	JWST 386	American Jewish Literature.	3
JWST 320D2	Intermediate Hebrew.	3	JWST 387	Modern Jewish Authors.	3
JWST 323	The Israeli Novel.	3	JWST 558	Topics: Modern Jewish Thought.	3
JWST 325	Israeli Literature in Translation.	3	JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 340D1	Advanced Hebrew.	3	JWST 586	Tutorial: Eastern European Studies 2.	3
JWST 340D2	Advanced Hebrew.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
JWST 367	Hebrew through Israeli Cinema.	3			
JWST 370	Israeli Popular Culture.	3			
JWST 383	Holocaust Literature.	3			
JWST 403	Contemporary Hebrew Literature.	3			

Language and Literature - Yiddish

Expand allContract all

Course	Title	Credits	Course	Title	Credits
JWST 206	Introduction to Yiddish Literature.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 281	Introductory Yiddish 1.	3	HIST 219	Jewish History: 1000 - 2000.	3
JWST 282	Introductory Yiddish 2.	3	JWST 201	Jewish Law.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 381	God and Devil in Modern Yiddish Literature.	3	JWST 316	Social and Ethical Issues Jewish Law 1.	3
JWST 383	Holocaust Literature.	3	JWST 345	Introduction to Rabbinic Literature.	3
JWST 387	Modern Jewish Authors.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 480	Advanced Yiddish 1.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 481	Advanced Yiddish 2.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 485	Tutorial in Yiddish Literature.	3	JWST 538	Early Rabbinic Parshanut 1.	3
JWST 486	Tutorial in Yiddish Literature.	3			

Modern Jewish Studies

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDER 319	Teaching the Holocaust.	3	HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3	HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3	HIST 307	Jews in Poland.	3
HIST 572D1	Seminar in Jewish History.	3	HIST 427	The Hasidic Movement.	3
HIST 572D2	Seminar in Jewish History.	3			
JWST 217	Jewish Studies 3: 1000 - 2000.	3			
JWST 240	The Holocaust.	3			

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3

HIST 572D1	Seminar in Jewish History.
HIST 572D2	Seminar in Jewish History.

3 Complementary Courses (27 credits)

27 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3

One of:

Expand allContract all

Course	Title	Credits
HIST 219	Jewish History: 1000 - 2000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

Jewish Language

0-6 credits of a Jewish language. Each Joint Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Expand allContract all

Course	Title	Credits
JWST 340D1	Advanced Hebrew.	3
JWST 340D2	Advanced Hebrew.	3
JWST 480	Advanced Yiddish 1.	3
JWST 481	Advanced Yiddish 2.	3

Areas of Jewish Studies

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Biblical Studies

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 330	Topics in the Hebrew Bible.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
RELG 307	Bible, Quran and Interpretations.	3

East European Studies

Expand allContract all

Jewish Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Requirements

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 491	Honours Thesis 1.	3
JWST 492	Honours Thesis 2.	3

Course	Title	Credits	JWST 314	Denominations in North American Judaism.	3
HIST 307	Jews in Poland.	3	JWST 315	Modern Liberal Jewish Thought.	3
HIST 427	The Hasidic Movement.	3	JWST 337	Jewish Philosophy and Thought 1.	3
JWST 206	Introduction to Yiddish Literature.	3	JWST 338	Jewish Philosophy and Thought 2.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	JWST 358	Topics in Jewish Philosophy 1.	3
JWST 240	The Holocaust.	3	JWST 359	Topics in Jewish Philosophy 2.	3
JWST 351	Studies in Modern Jewish Literature.	3	JWST 365	Modern Jewish Ideologies.	3
JWST 361	The Shtetl: 1500-1897.	3	JWST 366	History of Zionism.	3
JWST 365	Modern Jewish Ideologies.	3	JWST 474	Maimonides' Mishneh Torah.	3
JWST 366	History of Zionism.	3	JWST 558	Topics: Modern Jewish Thought.	3

Language and Literature - Hebrew

Expand allContract all

Course	Title	Credits
JWST 485	Tutorial in Yiddish Literature.	3
JWST 486	Tutorial in Yiddish Literature.	3
JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 586	Tutorial: Eastern European Studies 2.	3

Jewish History

Expand allContract all

Course	Title	Credits
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 307	Jews in Poland.	3
HIST 427	The Hasidic Movement.	3
HIST 572D1	Seminar in Jewish History.	3
HIST 572D2	Seminar in Jewish History.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 240	The Holocaust.	3

Course	Title	Credits
JWST 306	The American Jewish Community.	3
JWST 314	Denominations in North American Judaism.	3
JWST 315	Modern Liberal Jewish Thought.	3
JWST 361	The Shtetl: 1500-1897.	3
JWST 365	Modern Jewish Ideologies.	3
JWST 366	History of Zionism.	3

Jewish Thought

Expand allContract all

Course	Title	Credits
EDER 318	Teaching the Jewish Liturgy.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
HIST 427	The Hasidic Movement.	3
JWST 201	Jewish Law.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3
JWST 261	History of Jewish Philosophy and Thought.	3

Modern Jewish Studies

Expand allContract all

Course	Title	Credits	The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses have been included in the areas of study course lists above.
EDER 319	Teaching the Holocaust.	3	
HIST 219	Jewish History: 1000 - 2000.	3	
HIST 427	The Hasidic Movement.	3	Expand allContract all
HIST 572D1	Seminar in Jewish History.	3	
HIST 572D2	Seminar in Jewish History.	3	
JWST 217	Jewish Studies 3: 1000 - 2000.	3	
JWST 240	The Holocaust.	3	
JWST 309	Jews in Film.	3	
JWST 346	Modern Jewish Studies.	3	
JWST 348	Modern Jewish Studies.	3	
JWST 349	Modern Jewish Studies.	3	
JWST 351	Studies in Modern Jewish Literature.	3	
JWST 359	Topics in Jewish Philosophy 2.	3	
JWST 361	The Shtetl: 1500-1897.	3	
JWST 365	Modern Jewish Ideologies.	3	
JWST 366	History of Zionism.	3	
JWST 383	Holocaust Literature.	3	
JWST 386	American Jewish Literature.	3	
JWST 387	Modern Jewish Authors.	3	
JWST 558	Topics: Modern Jewish Thought.	3	
JWST 585	Tutorial: Eastern European Studies 1.	3	
JWST 586	Tutorial: Eastern European Studies 2.	3	
POLI 347	Arab-Israel Conflict, Crisis, Peace.	3	

Rabbinic Studies

Expand allContract all

Course	Title	Credits	
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	
HIST 219	Jewish History: 1000 - 2000.	3	
JWST 201	Jewish Law.	3	
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	
JWST 217	Jewish Studies 3: 1000 - 2000.	3	
JWST 316	Social and Ethical Issues Jewish Law 1.	3	
JWST 345	Introduction to Rabbinic Literature.	3	
JWST 358	Topics in Jewish Philosophy 1.	3	
JWST 359	Topics in Jewish Philosophy 2.	3	
JWST 474	Maimonides' Mishneh Torah.	3	Expand allContract all
JWST 538	Early Rabbinic Parshanut 1.	3	

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

Langue et littérature françaises - Langue française Concentration Mineure (B.A. & Sc.) (18 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Description du Programme

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue française ») » est offert en collaboration avec le Centre d'enseignement du français. Il s'adresse à des étudiant(e)s de français langue seconde qui ont déjà une bonne connaissance de la langue. Il vise l'acquisition d'un niveau de français équivalent au niveau B2 (« utilisateur expérimenté ») du Cadre européen de référence pour les langues dans les sphères universitaire, professionnelle, publique et personnelle.

Cette concentration mineure ne peut pas être convertie en concentration majeure. Pour être admis(e), l'étudiant(e) doit passer un test de classement au Centre d'enseignement du français.

Cours Complémentaires (18 crédits)

De 3 à 15 crédits de cours FRSL (Centre d'enseignement du français) répartis de la façon suivante :

De 0 à 6 crédits choisis parmi les cours ci-dessous :

Course	Title	Credits
FRSL 321D1	Oral and Written French 2.	3
FRSL 321D2	Oral and Written French 2.	3
FRSL 325	Oral and Written French 2 - Intensive.	6
FRSL 332	Intermediate French: Grammar 01.	3
FRSL 333	Intermediate French: Grammar 02.	3
FRSL 407	Compréhension et expression orales.	3
FRSL 408	Français oral: Textes et expressions.	3

De 0 à 6 crédits choisis parmi les cours ci-dessous :

Expand allContract all

Course	Title	Credits
FRSL 431	Français fonctionnel avancé.	6

De 3 à 12 crédits choisis parmi les cours ci-dessous :

Expand allContract all

Course	Title	Credits
FRSL 445	Français fonctionnel, écrit 1.	3
FRSL 446	Français fonctionnel, écrit 2.	3
FRSL 449	Le français des médias.	3
FRSL 455	Grammaire et création.	3

De 3 à 15 crédits choisis parmi les cours FREN suivants

Expand allContract all

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde). ¹	3
FREN 203	Analyse de textes (français langue seconde) . ¹	3
FREN 231	Linguistique française.	3
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 346	Traduction pragmatique.	3
FREN 441	Traduction français-anglais.	3

¹ Pour s'inscrire aux cours FREN 201 Le français littéraire (français langue seconde), ou FREN 203 Analyse de textes (français langue seconde) , l'étudiant(e) s'assurera d'avoir réussi le FRSL 431 Français fonctionnel avancé, ou d'avoir réussi ou être inscrit(e) à au moins un des cours suivants : FRSL 445 Français fonctionnel, écrit 1., FRSL 446 Français fonctionnel, écrit 2., FRSL 449 Le français des médias, ou FRSL 455 Grammaire et création..

Langue et littérature françaises - Études et pratiques littéraires Double Spécialisation (B.A. & Sc.) (36 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts, Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Ce programme, qui prépare aux études supérieures, offre une formation spécialisée incluant l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. La formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Les

étudiant(e)s suivent aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires. Ils et elles doivent en outre se spécialiser dans l'un ou l'autre grand domaine en choisissant entre trois orientations : « Études littéraires », « Crédit littéraire » et « Traduction littéraire ». L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé. Moyennes minimales requises : 3,00 pour l'ensemble des cours du programme et un CGPA de 3,00. Pour les détails quant aux jumelages possibles, consulter le site Web de la Faculté des Arts.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Cours Obligatoires (18 crédits)

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 333	Questions de littérature du Moyen Âge et de l'Ancien Régime.	3
FREN 444	Questions de littérature moderne.	3
FREN 450	Questions de littérature québécoise.	3
FREN 464D1	Mémoire de spécialisation.	3
FREN 464D2	Mémoire de spécialisation.	3

Cours Complémentaires (18 crédits)

L'étudiant(e) doit choisir entre trois orientations :

« A : Études littéraires », « B : Crédit littéraire » ou « C : Traduction littéraire » :

Orientation A - Études littéraires

de 6 à 9 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3
FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

De 3 à 6 crédits choisis parmi les cours suivants :

(b) Série « Langue française »

[Expand all](#)[Contract all](#)

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

Expand allContract all			
Credits	Course	Title	Credits
3	FREN 231	Linguistique française.	3
3	FREN 245	Grammaire normative.	3
3	FREN 313	Langage et littérature 1.	3
3	FREN 336	Histoire de la langue française.	3
3	FREN 356	Grammaire du texte littéraire.	3
3	FREN 434	Sociolinguistique du français.	3
3	FREN 491	Langage et littérature 2.	3
3	(c) Série « Théorie »		
3	Expand allContract all		

I) Bloc : Études

Liste de cours

(a) Série « Œuvres et courants »

[Expand all](#)[Contract all](#)

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3

Credits	FREN 391	Savoirs de la littérature 1.	3
3	FREN 394	Théories de la traduction .	3
3	FREN 420	Enjeux de l'écriture littéraire.	3
3	FREN 422	Le métier d'écrivain-e.	3

FREN 425	Traduction et culture.
FREN 496	Savoirs de la littérature 2.

3 compréhension de l'anglais et des compétences rédactionnelles en français. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission nécessite une bonne connaissance du français et de l'anglais lus et écrits, ainsi que du français parlé; cette connaissance est vérifiée à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée.

II) Bloc : Pratiques

(a) Série « Crédit »

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 340	Atelier d'écriture narrative.	3
FREN 440	Atelier d'écriture dramatique.	3
FREN 460	Atelier d'écriture.	3

(b) Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

(c) Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 494	Traduction spécialisée.	3

3 à 9 crédits choisis parmi les cours suivants :

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3

Langue et littérature françaises - Traduction Concentration Mineure (B.A. & Sc.) (18 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Description du Programme

Le programme de « Concentration mineure en Langue et littérature françaises (option « Traduction ») » offre une introduction à la traduction de l'anglais vers le français. Il favorise l'amélioration de la

Cours Obligatoires (3 crédits)

Expand allContract all

Course	Title	Credits
FREN 244	Traduction générale.	3

Cours Complémentaires (15 crédits)

6 à 12 crédits choisis parmi les cours suivants :

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 494	Traduction spécialisée.	3

3 à 9 crédits choisis parmi les cours suivants :

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction .	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3

FREN 491	Langage et littérature 2.	3	Course	Title	Credits
FREN 492	Histoire de la traduction.	3	FREN 222	Introduction aux études littéraires.	3

Langue et littérature françaises - Traduction Concentration (B.A. & Sc.) (36 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Le programme de « Concentration majeure en Langue et littérature françaises (option « Traduction ») » offre une formation générale en traduction de l'anglais vers le français. D'abord pratique, cette formation fournit également des assises théoriques sur le fonctionnement de la langue ou les enjeux de la traduction. Elle favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français, compétences que l'étude de la littérature de langue française viendra renforcer. L'admission au programme nécessite une bonne connaissance du français et de l'anglais lus et écrits, de même que du français parlé ; cette connaissance est vérifiée à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 Stylistique comparée.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Cours Obligatoires (9 crédits)

Expand allContract all

3	Course	Title	Credits
3	FREN 222	Introduction aux études littéraires.	3
	FREN 244	Traduction générale.	3
	FREN 245	Grammaire normative.	3

Cours Complémentaires (27 crédits)

De 12 à 18 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 494	Traduction spécialisée.	3

De 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 394	Théories de la traduction . ¹	3
FREN 425	Traduction et culture.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3
FREN 492	Histoire de la traduction.	3

¹ L'étudiant(e) peut suivre FREN 394 Théories de la traduction . et/ou le FREN 425 Traduction et culture.

6 à 9 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800).

0 à 3 crédits choisis parmi les séries « Crédit » et « Édition » du bloc « Pratiques ».

Bloc: Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits	Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.
FREN 250	Littérature française avant 1800.	3	
FREN 251	Littérature française depuis 1800.	3	
FREN 252	Littérature québécoise.	3	
FREN 253	Oeuvres culture occidentale.	3	
FREN 310	Cinéma français.	3	
FREN 311	Cinéma francophone.	3	
FREN 315	Cinéma québécois.	3	
FREN 355	Littérature du 20e siècle 1.	3	
FREN 360	La littérature du 19e siècle 1.	3	
FREN 362	La littérature du 17e siècle 1.	3	
FREN 364	La littérature du 18e siècle 1.	3	
FREN 366	Littérature de la Renaissance 1.	3	
FREN 372	Littérature québécoise 1.	3	
FREN 380	Littératures francophones 1.	3	
FREN 381	Littératures francophones 2.	3	
FREN 382	Littérature québécoise 2.	3	
FREN 453	Littérature du 20e siècle 2.	3	Tou(te)s les étudiant(e)s sont amené(e)s à suivre aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires ; ils et elles doivent cependant choisir une majorité de cours dans l'un ou l'autre grand domaine. L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé.
FREN 455	La littérature médiévale 1.	3	
FREN 456	La littérature médiévale 2.	3	
FREN 457	La littérature de la Renaissance 2.	3	
FREN 458	La littérature du 17e siècle 2.	3	
FREN 459	La littérature du 18e siècle 2.	3	
FREN 461	Enjeux littéraires et culturels 1.	3	
FREN 472	Enjeux littéraires et culturels 2.	3	
FREN 480	Littérature québécoise contemporaine.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
FREN 482	La littérature du 19e siècle 2.	3	
FREN 485	Littérature française contemporaine.	3	
FREN 498	Questions de littérature 3.	3	

II) Bloc: Pratiques

(a) Série « Crédit »

Expand allContract all

Course	Title	Credits	
FREN 240	Atelier d'écriture poétique.	3	
FREN 320	Traduire, écrire, expérimenter.	3	
FREN 340	Atelier d'écriture narrative.	3	
FREN 440	Atelier d'écriture dramatique.	3	
FREN 460	Atelier d'écriture.	3	

(b) Série: « Édition »

Expand allContract all

Course	Title	Credits	
FREN 376	Correction et révision.	3	
FREN 377	Pratiques de l'édition littéraire.	3	
FREN 476	Le livre.	3	

Langue et littérature françaises - Études et pratiques littéraires Concentration (B.A. & Sc.) (36 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Description du Programme

Ce programme offre une formation générale qui inclut l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. Cette formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. L'étude de la littérature s'y fait à travers les différentes pratiques que sont la création, la traduction et l'édition. Tou(te)s les étudiant(e)s sont amené(e)s à suivre aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires ; ils et elles doivent cependant choisir une majorité de cours dans l'un ou l'autre grand domaine. L'inscription au programme presuppose une très bonne connaissance du français lu, écrit et parlé.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Cours Obligatoires (12 crédits)

Expand allContract all

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 333	Questions de littérature du Moyen Âge et de l'Ancien Régime.	3

FREN 444	Questions de littérature moderne.	3	FREN 311	Cinéma francophone.	3
FREN 450	Questions de littérature québécoise.	3	FREN 315	Cinéma québécois.	3

Cours Complémentaires (24 crédits)

24 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

Orientation A - « Études littéraires »

de 3 à 9 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre au moins l'un des deux cours suivants :

Expand allContract all

Course	Title	Credits
FREN 245	Grammaire normative.	3
FREN 356	Grammaire du texte littéraire.	3

de 9 à 15 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

de 3 à 9 crédits choisis parmi les cours de la série « Théorie » ;

de 3 à 9 crédits choisis parmi les cours du bloc « Pratiques ».

Orientation B - « Pratiques littéraires »

de 3 à 6 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre l'un des cours suivants :

Expand allContract all

Course	Title	Credits
FREN 245	Grammaire normative.	3
FREN 356	Grammaire du texte littéraire.	3

au moins 6 crédits choisis parmi les cours du bloc « Études » ;

de 3 à 6 crédits choisis parmi les cours suivants :

Expand allContract all

Course	Title	Credits
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3

au moins 6 crédits choisis parmi les cours de la série « Création » ;

0 à 6 crédits choisis parmi les cours du bloc « Pratiques ».

I) Bloc : Études

Liste de cours

(a) Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 253	Oeuvres culture occidentale.	3
FREN 310	Cinéma français.	3

FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3
FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

(b) Série « Langue française »

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3
FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

(c) Série « Théorie »

Expand allContract all

Course	Title	Credits
FREN 334	L'oeuvre au miroir de la critique.	3
FREN 335	Théories littéraires 1.	3
FREN 337	Textes, imaginaires, sociétés.	3
FREN 375	Théories littéraires 2.	3
FREN 391	Savoirs de la littérature 1.	3
FREN 394	Théories de la traduction .	3
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3

FREN 425	Traduction et culture.	3
FREN 496	Savoirs de la littérature 2.	3

II) Bloc : Pratiques

(a) Série « Création »

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 340	Atelier d'écriture narrative.	3
FREN 440	Atelier d'écriture dramatique.	3
FREN 460	Atelier d'écriture.	3

(b) Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

(c) Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3
FREN 443	Traduire la littérature.	3
FREN 492	Histoire de la traduction.	3
FREN 494	Traduction spécialisée.	3

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

Langue et littérature françaises - Études et pratiques littéraires Concentration Mineure (B.A. & Sc.) (18 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

3 **Program credit weight:** 18

Description du Programme

Ce programme offre une introduction aux études littéraires de langue française et aux différentes pratiques littéraires que sont la création, la traduction et l'édition. Il vise également à fournir à chaque étudiant(e) les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission au programme nécessite une bonne connaissance du français lu, écrit et parlé.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Cours Complémentaires (18 crédits)

3 crédits choisis parmi les cours d'introduction suivants :

Course	Title	Credits
FREN 222	Introduction aux études littéraires.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3

15 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

Orientation A : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

Orientation B : « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

Bloc: Études

Liste de cours

Série « Œuvres et courants »

Expand allContract all

Course	Title	Credits
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3
FREN 310	Cinéma français.	3
FREN 311	Cinéma francophone.	3
FREN 315	Cinéma québécois.	3
FREN 355	Littérature du 20e siècle 1.	3
FREN 360	La littérature du 19e siècle 1.	3
FREN 362	La littérature du 17e siècle 1.	3
FREN 364	La littérature du 18e siècle 1.	3
FREN 366	Littérature de la Renaissance 1.	3
FREN 372	Littérature québécoise 1.	3
FREN 380	Littératures francophones 1.	3
FREN 381	Littératures francophones 2.	3
FREN 382	Littérature québécoise 2.	3
FREN 453	Littérature du 20e siècle 2.	3
FREN 455	La littérature médiévale 1.	3
FREN 456	La littérature médiévale 2.	3
FREN 457	La littérature de la Renaissance 2.	3
FREN 458	La littérature du 17e siècle 2.	3
FREN 459	La littérature du 18e siècle 2.	3
FREN 461	Enjeux littéraires et culturels 1.	3
FREN 472	Enjeux littéraires et culturels 2.	3
FREN 480	Littérature québécoise contemporaine.	3
FREN 482	La littérature du 19e siècle 2.	3
FREN 485	Littérature française contemporaine.	3
FREN 498	Questions de littérature 3.	3

Série « Langue française »

Expand allContract all

Course	Title	Credits
FREN 231	Linguistique française.	3
FREN 245	Grammaire normative.	3
FREN 313	Langage et littérature 1.	3
FREN 336	Histoire de la langue française.	3
FREN 356	Grammaire du texte littéraire.	3

FREN 434	Sociolinguistique du français.	3
FREN 491	Langage et littérature 2.	3

Série « Théorie »

Expand allContract all

Course	Title	Credits
FREN 334	L'œuvre au miroir de la critique.	3
FREN 335	Théories littéraires 1.	3
FREN 337	Textes, imaginaires, sociétés.	3
FREN 375	Théories littéraires 2.	3
FREN 391	Savoirs de la littérature 1.	3
FREN 394	Théories de la traduction .	3
FREN 420	Enjeux de l'écriture littéraire.	3
FREN 422	Le métier d'écrivain-e.	3
FREN 425	Traduction et culture.	3
FREN 496	Savoirs de la littérature 2.	3

Bloc: Pratiques

Liste des cours

Série « Création »

Expand allContract all

Course	Title	Credits
FREN 240	Atelier d'écriture poétique.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 340	Atelier d'écriture narrative.	3
FREN 440	Atelier d'écriture dramatique.	3
FREN 460	Atelier d'écriture.	3

Série « Édition »

Expand allContract all

Course	Title	Credits
FREN 376	Correction et révision.	3
FREN 377	Pratiques de l'édition littéraire.	3
FREN 476	Le livre.	3

Série « Traduction »

Expand allContract all

Course	Title	Credits
FREN 239	Stylistique comparée.	3
FREN 244	Traduction générale.	3
FREN 320	Traduire, écrire, expérimenter.	3
FREN 324	Traduction littéraire.	3
FREN 341	Traduction et recherche.	3
FREN 346	Traduction pragmatique.	3
FREN 347	Terminologie générale.	3
FREN 349	Traduction et actualité .	3
FREN 431	Traduction et révision.	3
FREN 441	Traduction français-anglais.	3

FREN 443	Traduire la littérature.	3	HISP 301	Hispanic Literature and Culture in English 1.	3
FREN 492	Histoire de la traduction.	3	ITAL 355	Dante and the Middle Ages.	3
FREN 494	Traduction spécialisée.	3	ITAL 365	The Italian Renaissance.	3

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

European Literature and Culture Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in European Literature and Culture provides students with a broad foundation for understanding the development and interconnectedness of European culture, and its relevance for the comprehension of today's world through the study of literature and the arts from the Middle Ages to modern times. Knowledge of a language other than English is not required to complete the program.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
LLCU 210	Introduction to European Literature and Culture.	3

Complementary Courses (15 credits)

9-15 credits selected from the list below. At least 6 credits should be at the 300-level or above.

Students with an advanced knowledge of German, Italian, Russian, or Spanish can count GERM, HISP, ITAL, and RUSS literature courses taught in those languages toward the Minor Concentration. No more than 6 credits in any given area (LLCU, GERM, HISP, ITAL, and RUSS) shall count toward the Minor Concentration (not including LLCU 210 Introduction to European Literature and Culture.).

Expand allContract all

Course	Title	Credits
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 367	Topics in German Thought.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 370	Special Topics in German Film.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3

ITAL 374	Classics of Italian Cinema.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3
LLCU 200	Topics in Film.	3
LLCU 201	Literature and Culture Topics.	3
LLCU 220	Introduction to Literary Analysis.	3
LLCU 230	Environmental Imaginations.	3
LLCU 279	Introduction to Film History.	3
LLCU 300	Cinema and the Visual.	3
LLCU 301	Topics in Culture and Thought.	3
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3
RUSS 330	Chekhov without Borders.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3

0-6 credits in literature courses offered by Classical Studies (CLAS), English (ENGL), and French (FREN) selected from the following list:

Expand allContract all

Course	Title	Credits
CLAS 203	Greek Mythology.	3
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 302	Roman Literature and Society.	3
CLAS 306	Classics in Modern Media.	3
CLAS 336	Modern Greek Literature.	3
ENGL 200	Survey of English Literature 1.	3
ENGL 201	Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 310	Restoration and 18th Century Drama.	3
ENGL 314	20th Century Drama.	3
ENGL 329	English Novel: 19th Century 1.	3
ENGL 337	Theme or Genre in Medieval Literature.	3
ENGL 347	Great Writings of Europe 1.	3
ENGL 349	English Literature and Folklore 1.	3

ENGL 356	Middle English.	3	GERM 202D2	German Language, Beginners.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3	GERM 300	German Language Intensive Intermediate.	6
ENGL 456	Middle English.	3	GERM 307	German Language - Intermediate.	6
FREN 355	Littérature du 20e siècle 1.	3	GERM 307D1	German Language - Intermediate.	3
FREN 360	La littérature du 19e siècle 1.	3	GERM 307D2	German Language - Intermediate.	3
FREN 362	La littérature du 17e siècle 1.	3	GERM 325	German Language - Intensive Advanced.	6
FREN 364	La littérature du 18e siècle 1.	3			
FREN 366	Littérature de la Renaissance 1.	3			
FREN 453	Littérature du 20e siècle 2.	3			
FREN 455	La littérature médiévale 1.	3			
FREN 456	La littérature médiévale 2.	3			
FREN 457	La littérature de la Renaissance 2.	3			
FREN 458	La littérature du 17e siècle 2.	3			
FREN 459	La littérature du 18e siècle 2.	3			
FREN 482	La littérature du 19e siècle 2.	3			
FREN 485	Littérature française contemporaine.	3			

German Language Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.

Note: Beginners' and Intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

Complementary Courses (18 credits)

18 credits of language courses or any course above the 325 level given in the German language, selected from the following:

Language Courses

Expand allContract all

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3

List of Complementary Courses

Expand allContract all

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3

German Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in German Studies provides an introduction to and critical understanding of a variety of aspects of German culture from the eighteenth century to the present day. It is designed to complement other forms of disciplinary and cultural inquiry, such as international studies, the digital humanities, and studies in other languages or geographic areas. Courses include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture.

This program may be expanded to a Major Concentration.

Complementary Courses (18 credits)

18 credits of courses in German literature, culture, and film taught in English or German selected from the following list.

A maximum of 6 credits of LLCU courses can be taken, with prior departmental approval.

Beginners' and Intermediate Language courses may not be applied towards this Minor Concentration.

GERM 325 German Language - Intensive Advanced. may be applied towards this Minor Concentration.

Expand allContract all

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 325	German Language - Intensive Advanced.	6
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3

GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 373	Weimar German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3

German Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the major concentration and normally courses towards the major concentration will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

6 credits must be in pre-20th century literature and culture.

A minimum of 9 credits of literature, culture, and film courses taught in German.

A maximum of 6 credits of LLCU courses, with prior departmental approval.

Language Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D2	German Language, Beginners.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

Literature and Culture Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 326	Topics: German Language and Culture.	3
GERM 331	Germany after Reunification.	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 335	Science and Literature.	3
GERM 336	German Language, Media and Culture.	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3

GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 373	Weimar German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3
GERM 580	Topics in German Literature and Culture.	3

German Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours – German Studies Component provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the Joint Honours Component and normally courses towards the Joint Honours Component will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
GERM 570	Joint Honours Thesis.	3

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications:

Students can elect to take either the German language stream in which most courses must be taught in German or the translation stream in which courses can be taught in either German or English.

6 credits must be in pre-20th Century literature and culture.

Students of the German language stream can take a maximum of 9 credits of LLCU courses or German Studies courses taught in English, only with prior approval.

3 credits at the 400 level (only applies to German language stream).

Language Courses

Expand allContract all

Course	Title	Credits
GERM 200	German Language, Intensive Beginners.	6
GERM 202	German Language, Beginners'.	6
GERM 202D1	German Language, Beginners'.	3
GERM 202D2	German Language, Beginners.	3
GERM 300	German Language Intensive Intermediate.	6
GERM 307	German Language - Intermediate.	6
GERM 307D1	German Language - Intermediate.	3
GERM 307D2	German Language - Intermediate.	3
GERM 325	German Language - Intensive Advanced.	6

Literature and Culture Courses

Expand allContract all

Course	Title	Credits
GERM 255	German Holocaust Memory	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
GERM 331	Germany after Reunification. ¹	3
GERM 332	Topics in Eighteenth-Century German Literature and Culture.	3
GERM 336	German Language, Media and Culture. ¹	3
GERM 337	Literature and Revolution.	3
GERM 340	Romanticism.	3
GERM 344	Realism.	3
GERM 348	Nature and Ecopoetics.	3
GERM 350	Modernism and the Avant-Garde.	3
GERM 351	Berlin.	3
GERM 355	Nietzsche and Wagner.	3
GERM 357	German Culture in European Context.	3
GERM 358	Franz Kafka.	3
GERM 362	20th Century Literature Topics.	3
GERM 364	Gender and Society in German Literature and Culture.	3
GERM 365	Modern Short Fiction.	3
GERM 366	Lyric Poetry.	3
GERM 368	Fin-de-Siècle Vienna.	3
GERM 369	The German Novel.	3
GERM 371	German Cinema.	3
GERM 372	Topics in German Cinema.	3
GERM 375	German Media Studies.	3
GERM 379	German Visual Culture.	3
GERM 381	Topics in German Thought.	3
GERM 385	Critical Theory.	3
GERM 388	Post-Wall Culture.	3
GERM 390	Topics in 21st Century German Literature and Culture.	3
GERM 397	Individual Reading Course 01.	3
GERM 580	Topics in German Literature and Culture.	3

¹ NOTE: Students can take either GERM 331 Germany after Reunification. or GERM 336 German Language, Media and Culture. but not both.

Hispanic Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Hispanic Studies provides students with a solid foundation on Spanish language and culture. It can be expanded to the Major Concentration in Hispanic Studies.

Complementary Courses (18 credits)

0-12 credits in language courses.

Expand allContract all

Course	Title	Credits
HISP 210	Spanish Language: Beginners.	6
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220	Spanish Language: Intermediate.	6

6-18 credits to be chosen from among Hispanic Studies course offerings other than language courses, of which no more than 6 credits may be courses taught in English.

Note: Advanced Placement (AP) credits cannot be counted towards the Minor.

Hispanic Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Department of Languages, Literatures, and Cultures – Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

Expand allContract all

Course	Title	Credits
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3

Introductory Courses

6 - 12 credits in Introductory courses from:

Expand allContract all

Course	Title	Credits
HISP 245	Introduction to Hispanic Literature	3
HISP 246	Contemporary Issues in the Hispanic World	3
HISP 247	Introduction to Hispanic Popular Cultures	3
HISP 248	Introduction to Hispanic Cinema	3

Hispanic Literature and Culture

6-30 credits from the following with a minimum of 6 credits at the 400 level or above:

Expand allContract all

Course	Title	Credits
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 325	Spanish Novel of the 19th Century.	3
HISP 326	Spanish Romanticism.	3

HISP 328	Literature of Ideas: Latin America.	3	exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website.
HISP 332	Latin American Literature of 19th Century.	3	
HISP 333	Theatre, Performance and Politics in Latin America.	3	Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".
HISP 335	Politics and Poetry in Latin America.	3	
HISP 340	Latin American Cinema.	3	
HISP 341	Spanish Cinema.	3	Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).
HISP 345	Contemporary Hispanic Cultural Studies.	3	
HISP 352	Latin American Novel.	3	
HISP 356	Latin American Short Story.	3	Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.
HISP 357	Latin American Digital Literature and Culture.	3	
HISP 358	Gender and Textualities.	3	
HISP 432	Literature - Discovery and Exploration Spain New World.	3	
HISP 437	Colonial / Postcolonial Latin America.	3	
HISP 438	Topics: Spanish Literature.	3	
HISP 439	Topics: Latin American Literature.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
HISP 451	Don Quixote.	3	
HISP 454	Major Figures: Spanish Literature and Culture.	3	
HISP 455	Major Figures: Latin American Literature and Culture.	3	
HISP 458	Golden Age Literature: Renaissance.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
HISP 505	Seminar in Hispanic Studies 01.	3	<ul style="list-style-type: none"> The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above). The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Note: No more than 12 credits in courses taught in English shall count towards the Major.

Hispanic Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Department of Languages, Literatures, and Cultures - Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
HISP 490D1	Honours Thesis.	3
HISP 490D2	Honours Thesis.	3

Complementary Courses (30 credits)

Introductory Courses

6-12 credits in Introductory courses from:

Expand allContract all

Course	Title	Credits
HISP 245	Introduction to Hispanic Literature	3
HISP 246	Contemporary Issues in the Hispanic World	3
HISP 247	Introduction to Hispanic Popular Cultures	3
HISP 248	Introduction to Hispanic Cinema	3

18-24 credits taken from undergraduate courses in Hispanic Studies at the 300 level or higher, of which 9 credits should be at the 400 level or higher {excluding HISP 490D1 and HISP 490D2}.

No more than 12 credits in courses taught in English shall count towards this program.

Note: No more than 12 credits in courses taught in English shall count towards the major

Italian Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

This program may be expanded to the Major Concentration Italian Studies.

Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

Group A - Basic Language Courses and Group B - Courses taught in Italian (12-18 credits combined)

Group C - Courses taught in English (0-6 credits)

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3
ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3
ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 310	The Invention of Italian Literature.	3
ITAL 329	Italian Cinematic Tradition.	3
ITAL 332	Italian Theatrical Traditions.	3

ITAL 345	Romanticism in Italy.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 371	The Italian Baroque.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition. or ITAL 255 Advanced Reading and Composition. can count towards the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 230	Understanding Italy.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Italian Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

Group A - Basic Language Courses (0-12 credits)

- Students with no knowledge of the Italian language must take 12 credits in language.
- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1 Italian for Advanced Beginners./ITAL 210D2 Italian for Advanced Beginners., ITAL 215D1 Intermediate Italian./ITAL 215D2 Intermediate Italian., or ITAL 216 Intermediate Italian Intensive..
- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

Group B - Courses Taught in Italian (a minimum of 12 credits, of which a maximum of 6 credits may be at the 200 level)

Group C - Courses Taught in English (0-12 credits)

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3
ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3
ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 310	The Invention of Italian Literature.	3

ITAL 329	Italian Cinematic Tradition.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 345	Romanticism in Italy.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 371	The Italian Baroque.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹

Note: Only one of ITAL 250 Italian Literary Composition. or ITAL 255 Advanced Reading and Composition. can count toward the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 230	Understanding Italy.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 363	Gender, Literature and Society.	3
ITAL 365	The Italian Renaissance.	3
ITAL 374	Classics of Italian Cinema.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Italian Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to Joint Honours requires departmental approval. Students wishing to register in the program should consult with the Department as early as possible. Students may register for Joint Honours in the first

year, instead of the second year, if in the opinion of the departments they are found to be qualified.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ITAL 355	Dante and the Middle Ages.	3
ITAL 470	Joint Honours Thesis.	3

Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

Group A - Basic Language Courses

Expand allContract all

Course	Title	Credits
ITAL 205D1	Italian for Beginners.	3
ITAL 205D2	Italian for Beginners.	3
ITAL 206	Beginners Italian Intensive.	6
ITAL 210D1	Italian for Advanced Beginners.	3
ITAL 210D2	Italian for Advanced Beginners.	3
ITAL 215D1	Intermediate Italian.	3

ITAL 215D2	Intermediate Italian.	3
ITAL 216	Intermediate Italian Intensive.	6

Group B - Courses Taught in Italian

Expand allContract all

Course	Title	Credits
ITAL 250	Italian Literary Composition. ¹	3
ITAL 255	Advanced Reading and Composition. ¹	6
ITAL 260	Reading Italian Literature.	3
ITAL 290	Commedia Dell'Arte.	3
ITAL 295	Italian Cultural Studies.	3
ITAL 307	Topics in Italian Culture.	3
ITAL 310	The Invention of Italian Literature.	3
ITAL 332	Italian Theatrical Traditions.	3
ITAL 356	Medieval Discourses on Love.	3
ITAL 360	Contemporary Italian Prose.	3
ITAL 383	Women's Writing since 1880.	3
ITAL 400	Italian Regional Identities.	3
ITAL 410	Italian Modernism.	3
ITAL 560	Topics in 19th and 20th Century Literature.	3

¹ Note: Only one of ITAL 250 Italian Literary Composition. or ITAL 255 Advanced Reading and Composition. can count toward the program.

Group C - Courses Taught in English

Expand allContract all

Course	Title	Credits
ITAL 199	FYS: Italy's Literature in Context.	3
ITAL 355	Dante and the Middle Ages.	3
ITAL 365	The Italian Renaissance.	3
ITAL 375	Cinema and Society in Modern Italy.	3
ITAL 464	Machiavelli.	3
ITAL 477	Italian Cinema and Video.	3

Group D - Courses Offered in Other Departments

Expand allContract all

Course	Title	Credits
ARTH 223	Introduction Italian Renaissance Art 1300-1500.	3
ARTH 325	Visual Culture Renaissance Venice.	3
CLAS 302	Roman Literature and Society.	3
CLAS 404	Classical Tradition.	3
ENGL 447	Crosscurrents/English Literature and European Literature 1.	3
HIST 345	History of Italian Renaissance.	3
HIST 380	The Medieval Mediterranean .	3
HIST 398	Topics in Italian History.	3

HIST 401AA	Topics: Medieval Culture & Soc
MUHL 387	Opera from Mozart to Puccini.

3 least one course should be at the 300 level or above. No more than 6 credits in Spanish or Portuguese language shall count for the Minor Concentration.

Latin American & Caribbean Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages, Literatures, Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
LACS 497	Research Seminar: Latin America and the Caribbean.	3

Complementary Courses (15 credits)

3-6 credits to be chosen from:

Expand allContract all

Course	Title	Credits
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3

3-6 credits to be chosen from:

Expand allContract all

Course	Title	Credits
HIST 210	Introduction to Latin American History .	3
LACS 480	Latin American and Caribbean Studies Reading Course.	3
LACS 499	Internship: Latin America and Caribbean Studies.	3
POLI 319	Politics of Latin America.	3

3-9 credits to be selected from the following course list in consultation with the Program Adviser. If more than one course is chosen, they must be from at least two different disciplines or departments. At

Courses Offered by Other Units

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3
ANTH 319	Inka Archaeology and Ethnohistory.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 332	Mesoamerican Archaeology.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 431	Studies in Drama. ¹	3

¹ when given under a topic related to Latin American & Caribbean Studies

Geography

Expand allContract all

Course	Title	Credits
GEOG 310	Development and Livelihoods.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

Expand allContract all

Course	Title	Credits
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3

HISP 333	Theatre, Performance and Politics in Latin America.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
HISP 340	Latin American Cinema.	3	
HISP 352	Latin American Novel.	3	
HISP 356	Latin American Short Story.	3	
HISP 357	Latin American Digital Literature and Culture.	3	
HISP 358	Gender and Textualities.	3	
HISP 432	Literature - Discovery and Exploration Spain New World.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
HISP 437	Colonial / Postcolonial Latin America.	3	
HISP 439	Topics: Latin American Literature.	3	
HISP 455	Major Figures: Latin American Literature and Culture.	3	
HISP 505	Seminar in Hispanic Studies 01.	3	

History

Expand allContract all

Course	Title	Credits
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA	Topics in Latin American History.	3
or HIST 409AB	Topics in Latin American History.	
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Latin American & Caribbean Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36

Program Description

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3
HIST 210	Introduction to Latin American History .	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3
POLI 319	Politics of Latin America.	3

¹ Note: Successful completion of intermediate-level Spanish (HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate. or HISP 219 Spanish Language Intensive - Intermediate. or equivalent) is a prerequisite for the required courses HISP 243 Survey of Latin American Literature and Culture 1. and HISP 244 Survey of Latin American Literature and Culture 2..

Complementary Courses (21 credits)

21 credits selected from the Complementary Course List in consultation with the Program Advisor with the following requirements:

1. Courses from at least two disciplines or departments must be included.
2. At least 6 of the 21 credits must be at the 300 level or above.
3. No more than 6 credits in Spanish or Portuguese language (HISP 210D1 Spanish Language: Beginners./HISP 210D2 Spanish Language: Beginners., HISP 218 Spanish Language Intensive - Elementary., HISP 219 Spanish Language Intensive - Intermediate., HISP 220D1 Spanish Language: Intermediate./HISP 220D2 Spanish Language: Intermediate.) shall count for the Major concentration.

Complementary Course List

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3
ANTH 319	Inka Archaeology and Ethnohistory.	3

ANTH 326	Anthropology of Latin America.	3	HISP 357	Latin American Digital Literature and Culture.	3
ANTH 428	Saints and Mediation in Latin America.	3	HISP 358	Gender and Textualities.	3
Economics			HISP 432	Literature - Discovery and Exploration Spain New World.	3
Expand all	Contract all		HISP 437	Colonial / Postcolonial Latin America.	3
Course	Title	Credits	HISP 439	Topics: Latin American Literature.	3
ECON 313	Economic Development 1.	3	HISP 455	Major Figures: Latin American Literature and Culture.	3
ECON 314	Economic Development 2.	3	HISP 505	Seminar in Hispanic Studies 01.	3

English

Expand all

Contract all

Course	Title	Credits	History	Credits
ENGL 431	Studies in Drama. ¹	3	Expand all	Contract all

¹ when given under a topic related to Latin American & Caribbean Studies

Geography

Expand all

Contract all

Course	Title	Credits	History	Credits
GEOG 310	Development and Livelihoods. ¹	3	HIST 223	Indigenous Peoples and Empires.
GEOG 404	Environmental Management 2.	3	HIST 360	Latin America since 1825.
GEOG 408	Geography of Development.	3	HIST 366	Themes in Latin American History.
GEOG 498	Humans in Tropical Environments.	3	HIST 409AA	Topics in Latin American History.
GEOG 510	Humid Tropical Environments.	3	or HIST 409AB	Topics in Latin American History.
			HIST 564D1	Seminar: Latin American History.
			HIST 564D2	Seminar: Latin American History.
			HIST 580D1	European and Native-American Encounters.
			HIST 580D2	European and Native-American Encounters.

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

Expand all

Contract all

Course	Title	Credits
HISP 202	Portuguese Language: Beginners.	6
HISP 210D1	Spanish Language: Beginners.	3
HISP 210D2	Spanish Language: Beginners.	3
HISP 218	Spanish Language Intensive - Elementary.	6
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3

Latin American and Caribbean Studies

Expand all

Contract all

Course	Title	Credits
LACS 480	Latin American and Caribbean Studies Reading Course.	3
LACS 499	Internship: Latin America and Caribbean Studies.	3

Political Science

Expand all

Contract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Latin American and Caribbean Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)**Degree:** Bachelor of Arts; Bachelor of Arts and Science**Program credit weight:** 36**Program Description**

The B.A.; Joint Honours Latin American and Caribbean Studies Component provides students with an interdisciplinary approach to the study of the Latin American and Caribbean region. Students wishing to study at the Honours level in two disciplines can combine Joint Honours programs in any two Arts disciplines. For a list of available

Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Joint Honours students should consult an adviser in each department to discuss their course selection and their research project. Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Requirements

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
HISP 243	Survey of Latin American Literature and Culture 1.	3
HISP 244	Survey of Latin American Literature and Culture 2.	3
HIST 210	Introduction to Latin American History .	3
LACS 497	Research Seminar: Latin America and the Caribbean.	3
LACS 498	Honours Thesis.	3
POLI 319	Politics of Latin America.	3

Complementary Courses (18 credits)

No more than 9 courses in one field.

Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 307	Andean Prehistory.	3

ANTH 319	Inka Archaeology and Ethnohistory.	3
ANTH 326	Anthropology of Latin America.	3
ANTH 428	Saints and Mediation in Latin America.	3

Economics

Expand allContract all

Course	Title	Credits
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3

English

Expand allContract all

Course	Title	Credits
ENGL 431	Studies in Drama. ¹	3

¹ When given under a topic related to Latin American and Caribbean studies.

Geography

Expand allContract all

Course	Title	Credits
GEOG 310	Development and Livelihoods.	3
GEOG 404	Environmental Management 2.	3
GEOG 408	Geography of Development.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3

¹ Note: GEOG 404 Environmental Management 2. may only count toward the requirements for this program when the topic is related to Panama.

Hispanic Studies

Expand allContract all

Course	Title	Credits
HISP 219	Spanish Language Intensive - Intermediate.	6
HISP 220D1	Spanish Language: Intermediate.	3
HISP 220D2	Spanish Language: Intermediate.	3
HISP 225	Hispanic Civilization 1.	3
HISP 226	Hispanic Civilization 2.	3
HISP 301	Hispanic Literature and Culture in English 1.	3
HISP 320	Contemporary Brazilian Literature and Film.	3
HISP 328	Literature of Ideas: Latin America.	3
HISP 332	Latin American Literature of 19th Century.	3
HISP 333	Theatre, Performance and Politics in Latin America.	3
HISP 340	Latin American Cinema.	3
HISP 352	Latin American Novel.	3
HISP 356	Latin American Short Story.	3
HISP 357	Latin American Digital Literature and Culture.	3
HISP 358	Gender and Textualities.	3

HISP 432	Literature - Discovery and Exploration Spain New World.	3	RUSS 310	Intermediate Russian Language 1.	3
HISP 437	Colonial / Postcolonial Latin America.	3	RUSS 311	Intermediate Russian Language 2.	3
HISP 439	Topics: Latin American Literature.	3	RUSS 316	Intermediate Russian Language Intensive 2.	6
HISP 455	Major Figures: Latin American Literature and Culture.	3	RUSS 327	Reading Russian Poetry.	3
HISP 505	Seminar in Hispanic Studies 01.	3	RUSS 328	Readings in Russian.	3
			RUSS 415	Advanced Russian Language Intensive 1.	6
			RUSS 453	Advanced Russian Language and Syntax.	3

History

Expand allContract all

Course	Title	Credits
HIST 223	Indigenous Peoples and Empires.	3
HIST 360	Latin America since 1825.	3
HIST 366	Themes in Latin American History.	3
HIST 409AA	Topics in Latin American History.	3
or HIST 409AB	Topics in Latin American History.	
HIST 580D1	European and Native-American Encounters.	3
HIST 580D2	European and Native-American Encounters.	3

Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3

Russian Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

Expand allContract all

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3

- ¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1. and RUSS 211 Elementary Russian Language 2..
² RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language 1. and RUSS 311 Intermediate Russian Language 2..
³ RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Russian Culture Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Russian Culture is designed primarily as an adjunct to area studies and/or programs in the humanities or social sciences. There are no Russian language requirements.

This program may be expanded into a Major Concentration in Russian.

Complementary Courses (18 credits)

Courses offered by LLC may be accepted subject to approval by the Department.

18 credits selected with the following specifications:

At least 6 credits from Group A

6-12 credits from Group B

Group A

At least 6 credits from:

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3

Group B

6-12 credits from:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 229	Introduction to Russian Folklore.	3
RUSS 250	The Central European Novel.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Russian Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Languages, Literatures, Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3
RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2.	3
RUSS 316	Intermediate Russian Language Intensive 2. ²	6
RUSS 327	Reading Russian Poetry.	3
RUSS 328	Readings in Russian.	3
RUSS 415	Advanced Russian Language Intensive 1.	6
RUSS 453	Advanced Russian Language and Syntax.	3

¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1. or RUSS 211 Elementary Russian Language 2..

² RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language 1. or RUSS 311 Intermediate Russian Language 2..

3

RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3
RUSS 229	Introduction to Russian Folklore.	3

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 250	The Central European Novel.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Russian Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students must consult with advisers in the respective departments for approval of their course selection.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

The Honours thesis course, RUSS 490 Honours Seminar 01., is usually completed in the student's final year and is on a topic in Russian literature or culture agreed upon in consultation with the student's thesis advisor. It is to be written independently from the thesis that is required by the second program in which the student is pursuing their Joint Honours degree

¹ Note: Students must submit their Russian thesis project proposals to the Russian Studies departmental adviser by March 15th or November 15th of the preceding term for independent research courses.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
RUSS 490	Honours Seminar 01.	3

Complementary Courses (33 credits)

33 credits selected from the following specifications:

Group A: Russian Language

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 210	Elementary Russian Language 1.	3
RUSS 211	Elementary Russian Language 2.	3
RUSS 215	Elementary Russian Language Intensive 1. ¹	6
RUSS 301	Russian for Heritage Speakers 2.	3
RUSS 310	Intermediate Russian Language 1.	3
RUSS 311	Intermediate Russian Language 2.	3
RUSS 316	Intermediate Russian Language Intensive 2. ²	6
RUSS 327	Reading Russian Poetry.	3
RUSS 328	Readings in Russian.	3
RUSS 415	Advanced Russian Language Intensive 1. ³	6
RUSS 453	Advanced Russian Language and Syntax.	3

¹ RUSS 215 Elementary Russian Language Intensive 1. is not open to students who have taken RUSS 210 Elementary Russian Language 1. or RUSS 211 Elementary Russian Language 2..

² RUSS 316 Intermediate Russian Language Intensive 2. is not open to students who have taken RUSS 310 Intermediate Russian Language 1. or RUSS 311 Intermediate Russian Language 2..

³ RUSS 415 Advanced Russian Language Intensive 1. is not open to students who have taken RUSS 411 Advanced Russian Language 2..

Group B

6-9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 217	Russia's Eternal Questions.	3
RUSS 218	Russian Literature and Revolution.	3
RUSS 223	Russian 19th Century: Literary Giants 1.	3
RUSS 224	Russian 19th Century: Literary Giants 2.	3
RUSS 229	Introduction to Russian Folklore.	3
RUSS 250	The Central European Novel.	3

Group C

6-9 credits selected from the following courses or their equivalent:

Expand allContract all

Course	Title	Credits
RUSS 213	Introduction to Soviet Film.	3
RUSS 330	Chekhov without Borders.	3
RUSS 333	Petersburg: City of Myth.	3
RUSS 337	Vladimir Nabokov.	3
RUSS 340	Russian Short Story.	3
RUSS 347	Late and Post-Soviet Culture.	3
RUSS 350	Central European Film.	3
RUSS 357	Leo Tolstoy.	3
RUSS 358	Fyodor Dostoevsky.	3
RUSS 365	Supernatural and Absurd in Russian Literature.	3
RUSS 369	Narrative and Memory in Russian Culture.	3
RUSS 381	Russia's Utopia Complex.	3
RUSS 382	Russian Opera.	3
RUSS 385	Staging Russianness: From Pushkin to Chekhov.	3
RUSS 390	Special Topics in Russian.	3
RUSS 395	Soviet Cinema: Art and Politics.	3
RUSS 397	Tarkovsky: Cinema and Philosophy.	3
RUSS 398	Soviet Women Filmmakers.	3
RUSS 427	Russian Fin de Siècle.	3
RUSS 428	Russian Avantgarde.	3
RUSS 430	High Stalinist Culture 1.	3
RUSS 440	Russia and Its Others.	3
RUSS 475	Special Topics in Russ Culture.	3
RUSS 500	Special Topics.	3
RUSS 501	Topics in Slavic Culture.	3

Students must submit proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Group D: Languages, Literatures, and Cultures and Faculty of Arts

0-3 credits to be chosen from the following or their equivalent:

Expand allContract all

Course	Title	Credits
ANTH 303	Ethnographies of Post-socialism.	3
HIST 216	Introduction to Russian History.	3
HIST 226	East Central and Southeastern Europe in 20th Century.	3
HIST 306	East Central Europe, 1944-2004.	3
HIST 313	Habsburg Monarchy, 1618-1918.	3
HIST 316	History of the Russian Empire.	3
HIST 326	History of the Soviet Union.	3
HIST 406	Topics: Russian History.	3
HIST 576D1	Seminar: Topics in Russian History.	3
HIST 576D2	Seminar: Topics in Russian History.	3
JWST 303	The Soviet Jewish Experience.	3
POLI 329	Russian Politics.	3
POLI 331	Politics in East Central Europe.	3
SOCI 455	Post-Socialist Societies.	3

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

Linguistics Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Linguistics (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description

The Minor Concentration in Linguistics focuses on basic Linguistics, the scientific study of human language, including phonetics and syntax, theoretical linguistics (phonology, syntax and semantics); experimental linguistics (phonetics, laboratory phonology, language acquisition and psycholinguistics); computational linguistics; linguistic fieldwork and language revitalization; and language variation and change (sociolinguistics, dialectology and historical linguistics). The program is expandable to the Major Concentration in Linguistics.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 371	Syntax 1.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (9 credits)

9 credits in Linguistics chosen according to the student's interests. At least 3 of these credits must be at the 400 or 500 level. Only 3 credits at the 200 level may count towards complementary credits. Students who take LING 360 Introduction to Semantics. as one of their complementary courses may also count one of the following courses that are its prerequisites toward the complementary course requirement:

Expand allContract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

Linguistics Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Linguistics focuses on various aspects of linguistics, including theoretical linguistics (phonology, syntax and semantics); experimental linguistics (phonetics, laboratory phonology, language acquisition and psycholinguistics); computational linguistics; linguistic fieldwork and language revitalization; and language variation and change (sociolinguistics, dialectology and historical linguistics).

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (15 credits)

Expand all Contract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 331	Phonology 1.	3
LING 360	Introduction to Semantics.	3
LING 371	Syntax 1.	3

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (21 credits)

3 credits from the following:

Expand all Contract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

18 credits in Linguistics (LING) chosen according to the student's interests.

At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

Linguistics Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see the "Overview of Programs Offered" page.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330 Phonetics., LING 331 Phonology 1., LING 360 Introduction to Semantics., LING 371 Syntax 1., as well as in the Joint Honours Thesis, LING 481D1 Joint Honours Thesis./LING 481D2 Joint Honours Thesis.. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Expand all Contract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 330	Phonetics.	3
LING 331	Phonology 1.	3
LING 360	Introduction to Semantics.	3
LING 371	Syntax 1.	3
LING 481D1	Joint Honours Thesis.	1.5
LING 481D2	Joint Honours Thesis.	1.5

Required courses must be completed at McGill unless Departmental permission is obtained.

Complementary Courses (18 credits)

3 credits from the following:

Expand all Contract all

Course	Title	Credits
COMP 230	Logic and Computability.	3
MATH 318	Mathematical Logic.	3
PHIL 210	Introduction to Deductive Logic 1.	3

15 credits in Linguistics courses (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 levels.

Only 3 credits at the 200 level may count towards complementary credits.

Mathematics Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Expandable Version: Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 235	Algebra 1.	3

MATH 236	Algebra 2. ¹	3
MATH 315	Ordinary Differential Equations.	3

¹ Note: Credit cannot be received for both MATH 236 Algebra 2. and MATH 223 Linear Algebra. (listed as a required course in the non-expandable version of this Minor concentration).

Expandable Version: Complementary Courses (6 credits)

Students selecting the expandable version of this program complete 6 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 Probability, as a complementary course.

Non-Expandable Version: Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra. ¹	3
MATH 315	Ordinary Differential Equations.	3

¹ Note: Credit cannot be received for both MATH 223 Linear Algebra. and MATH 236 Algebra 2. (listed as a required course in the expandable version of this Minor concentration).

Non-Expandable Version: Complementary Courses (9 credits)

Students selecting the non-expandable version of this program complete 9 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 Probability, as a complementary course.

Complementary Course List

Expand allContract all

Course	Title	Credits
MATH 249	Honours Complex Variables. ¹	3
MATH 314	Advanced Calculus. ¹	3
MATH 316	Complex Variables.	3
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 319	Partial Differential Equations .	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3

MATH 327	Matrix Numerical Analysis.	3	Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions. If there is no major counterpart available for a course, please see a departmental advisor to discuss its inclusion into your program as a complementary course in the lower section.
MATH 340	Discrete Mathematics.	3	
MATH 346	Number Theory.	3	
MATH 348	Euclidean Geometry.	3	
MATH 417	Linear Optimization.	3	
MATH 451	Introduction to General Topology.	3	

¹ Note: Either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. may be taken but not both.

Mathematics Major Concentration (B.A. & Sc.) (46 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 46

Program Description

The B.A.; Major Concentration in Mathematics aims to provide an overview of the foundations of mathematics.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Guidelines for Course Selection

Students who received advanced standing or the CEGEP equivalent of the 100-level Math courses listed below are no longer required to take them. Whenever an exemption without credits is granted for a 200-level and above required Math course, the latter must be replaced with a complementary course chosen in consultation with a program advisor.

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions. If there is no major counterpart available for a course, please see a departmental advisor to discuss its inclusion into your program as a complementary course in the lower section.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 340, MATH 417, and take the Minor Concentration Computer Science.

Students interested in probability and statistics should consider either taking the Minor Concentration Statistics under option C or taking the major concentration in statistics.

Students interested in applied mathematics should consider the courses MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, MATH 417, MATH 423, and MATH 447.

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Required Courses (28 Credits)

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 222	Calculus 3.	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 323	Probability.	3

Complementary Courses (18 Credits)

9-18 credits from:

Expand allContract all

Course	Title	Credits
MATH 249	Honours Complex Variables. ¹	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations. ¹	3
MATH 316	Complex Variables.	3
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 324	Statistics.	3

MATH 340	Discrete Mathematics.	3	To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.
MATH 346	Number Theory.	3	
MATH 378	Nonlinear Optimization .	3	
MATH 417	Linear Optimization.	3	
MATH 451	Introduction to General Topology.	3	

¹ Note: Either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. may be taken but not both.

0-3 credits from:

Expand allContract all

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3

0-9 credits from:

Expand allContract all

Course	Title	Credits
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 319	Partial Differential Equations .	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 348	Euclidean Geometry.	3
MATH 352	Problem Seminar.	1
MATH 410	Majors Project.	3
MATH 420	Independent Study.	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 463	Convex Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3

Mathematics Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 222	Calculus 3.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3

Complementary Courses (27 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹ It is strongly recommended that students take MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all		
Course	Title	Credits
MATH 248	Honours Vector Calculus. ¹	3
MATH 358	Honours Advanced Calculus.	3

¹ It is strongly recommended that students take MATH 358 Honours Advanced Calculus..

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

Expand allContract all		
Course	Title	Credits
MATH 325	Honours Ordinary Differential Equations.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 454	Honours Analysis 3. ²	3
MATH 455	Honours Analysis 4. ³	3
MATH 456	Honours Algebra 3. ⁴	3
MATH 457	Honours Algebra 4. ⁵	3
MATH 458	Honours Differential Geometry.	3
MATH 466	Honours Complex Analysis.	3

Statistics Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics

under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

Expand allContract all		
Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Required Courses (15 credits)

Expand allContract all		
Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 223	Linear Algebra. ¹	3
MATH 323	Probability. ¹	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3

¹ Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222 Calculus 3., MATH 223 Linear Algebra. and MATH 323 Probability. must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 Linear Algebra. and MATH 236 Algebra 2. (listed as a required course in the Major Concentration Mathematics).

Complementary Courses (3 credits)

3 credits from:

Expand allContract all		
Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 317	Numerical Analysis.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4

MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Statistics Major Concentration (B.A. & Sc.) (46 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 46

Program Description

The program provides training in statistics with a mathematical core. Taken together with the B.A.; Supplementary Minor Concentration in Statistics, these two programs constitute an equivalent of the B.Sc.; Major in Statistics program offered by the Faculty of Science. With satisfactory performance in an appropriate selection of courses, these two programs can lead to the accreditation "A.Stat" from the Statistical Society of Canada, which is regarded as the entry level requirement for a statistician practicing in Canada. Students interested in this accreditation should consult an academic advisor.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Guidelines for Course Selection

Students who received advanced standing or the CEGEP equivalent of the 100-level Math courses listed below are no longer required to take them. Whenever an exemption without credits is granted for a 200-level and above required Math course, the latter must be replaced with a complementary course chosen in consultation with a program advisor.

Students are strongly advised to complete all required courses by the end of U2.

Required Courses (34 credits)

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 203	Principles of Statistics 1. ¹	3
MATH 204	Principles of Statistics 2. ²	3
MATH 208	Introduction to Statistical Computing.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 242	Analysis 1.	3
MATH 323	Probability. ²	3
MATH 324	Statistics.	3

¹ Students who have taken an equivalent of MATH 203 Principles of Statistics 1. at CEGEP or elsewhere must replace it by another course

² from the Complementary course list.
Students must take MATH 204 Principles of Statistics 2. before taking MATH 324 Statistics..

Complementary Courses (12 credits)

12 credits from:

Expand allContract all

Course	Title	Credits
COMP 551	Applied Machine Learning.	4
MATH 308	Fundamentals of Statistical Learning. ¹	3
MATH 410	Majors Project. ¹	3
MATH 420	Independent Study. ¹	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications. ¹	4
MATH 527D1	Statistical Data Science Practicum. ¹	3
MATH 527D2	Statistical Data Science Practicum. ¹	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

MATH 598	Topics in Probability & Statistics 1	4	PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
WCOM 314	Communicating Science.	3	PHIL 441	Philosophy of Science 2.	3

¹ Students can take at most one of MATH 410 Majors Project., MATH 420 Independent Study., MATH 527D1 Statistical Data Science Practicum./MATH 527D2 Statistical Data Science Practicum. and WCOM 314 Communicating Science..

History and Philosophy of Science Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. For more information about the program and events, please visit <http://www.mcgill.ca/hpsc>.

Complementary Courses (18 credits)

18 credits with a maximum of 9 credits at the 200 level selected as follows:

Philosophy of Science

6-12 credits of courses focused on the Philosophy of Science with no more than 6 credits at the 200 level chosen from the following:

Communication Studies (COMS)

Expand allContract all

Course	Title	Credits
COMS 210	Introduction to Communication Studies.	3

History and Philosophy of Science (HPSC)

Expand allContract all

Course	Title	Credits
HPSC 300	Independent Studies: History and Philosophy of Science.	3

Philosophy (PHIL)

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 350	History and Philosophy of Ancient Science.	3

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

Expand allContract all

Course	Title	Credits
ANTH 359	History of Archaeological Theory.	3

Biology (BIOL)

Expand allContract all

Course	Title	Credits
BIOL 210	Perspectives of Science.	3

History (HIST)

Expand allContract all

Course	Title	Credits
HIST 249	Health and the Healer in Western History.	3
HIST 319	The Scientific Revolution.	3
HIST 335	Science and Medicine in Canada.	3
HIST 350	Science and the Enlightenment.	3
HIST 356	Medicine in the Medieval West.	3
HIST 410	Topics in History of Science.	3
HIST 452AA	Topics in Pre-Modern Medicine.	3
HIST 457AA	Topics in Medical History.	3
HIST 558	Modern Medicine: Seminar.	3
HIST 559	Modern Medicine: Research.	3
HIST 567D1	Seminar: Medieval Medicine.	3
HIST 567D2	Seminar: Medieval Medicine.	3

History and Philosophy of Science (HPSC)

Expand allContract all

Course	Title	Credits
HPSC 300	Independent Studies: History and Philosophy of Science.	3
HPSC 500	Interdisciplinary Seminar: History & Philosophy of Science.	3

Mathematics (MATH)

Expand allContract all

Course	Title	Credits
MATH 338	History and Philosophy of Mathematics.	3

Psychology (PSYC)

Expand allContract all

Course	Title	Credits
PSYC 403	Modern Psychology in Historical Perspective.	3

Philosophy Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Philosophy (Faculty of Arts)
Degree: Bachelor of Arts; Bachelor of Arts and Science
Program credit weight: 18

Program Description Complementary Courses (18 credits)

18 credits, of which no more than 9 credits may be at the 200 level and at least 3 credits must be at the 400 or 500 level, distributed as follows:

15 credits from Groups A, B, C, D, and E with one course from at least four of the five groups.

3 additional credits from Groups A, B, C, D, and E or from other Philosophy (PHIL) courses.

Group A

Expand allContract all		
Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3
PHIL 334	Ethical Theory.	3
PHIL 343	Biomedical Ethics.	3
PHIL 348	Philosophy of Law 1.	3
PHIL 427	Topics in Critical Philosophy of Race.	3
PHIL 434	Metaethics.	3
PHIL 442	Topics in Feminist Theory.	3

Group B

Expand allContract all		
Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3
PHIL 441	Philosophy of Science 2.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

Group C

Expand allContract all		
Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

Group D

Expand allContract all		
Course	Title	Credits
PHIL 344	Medieval and Renaissance Political Theory.	3
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 356	Early Medieval Philosophy.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

Group E

Expand allContract all		
Course	Title	Credits
PHIL 360	17th Century Philosophy.	3
PHIL 361	18th Century Philosophy.	3
PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 367	19th Century Philosophy.	3
PHIL 444	Early Modern Political Theory.	3
PHIL 445	19th Century Political Theory.	3

Philosophy Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Expand allContract all		
Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3

Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 Introduction to Philosophy 1. or PHIL 201 Introduction to Philosophy 2. may be included in the program.

Group A

3 credits from:

Expand allContract all		
Course	Title	Credits
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3
PHIL 441	Philosophy of Science 2.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

Group B

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

Group C

6 credits (two courses) from Group C OR Group D:

Expand allContract all

Course	Title	Credits
PHIL 344	Medieval and Renaissance Political Theory.	3
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 356	Early Medieval Philosophy.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

Group D

6 credits (two courses) from Group C OR Group D:

Expand allContract all

Course	Title	Credits
PHIL 360	17th Century Philosophy.	3
PHIL 361	18th Century Philosophy.	3
PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 367	19th Century Philosophy.	3
PHIL 444	Early Modern Political Theory.	3
PHIL 445	19th Century Political Theory.	3

Group E

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3

Group F

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 334	Ethical Theory.	3
PHIL 343	Biomedical Ethics.	3
PHIL 348	Philosophy of Law 1.	3
PHIL 427	Topics in Critical Philosophy of Race.	3
PHIL 434	Metaethics.	3
PHIL 442	Topics in Feminist Theory.	3

Philosophy Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 301	Philosophical Fundamentals.	3
PHIL 334	Ethical Theory.	3

Complementary Courses (27 credits)

27 credits distributed as follows:

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 419	Epistemology.	3
PHIL 421	Metaphysics.	3
PHIL 470	Topics in Contemporary Analytic Philosophy.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 240	Political Philosophy 1.	3
PHIL 242	Introduction to Feminist Theory.	3

Group A

6 credits from Group A or Group B.

Expand allContract all

Course	Title	Credits
PHIL 345	Greek Political Theory.	3
PHIL 350	History and Philosophy of Ancient Science.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 354	Plato.	3
PHIL 355	Aristotle.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 453	Ancient Metaphysics and Natural Philosophy.	3
PHIL 454	Ancient Moral Theory.	3

Group B

6 credits from Group A or Group B.

Expand allContract all

Course	Title	Credits
PHIL 360	17th Century Philosophy.	3
PHIL 361	18th Century Philosophy.	3
PHIL 366	18th and Early 19th Century German Philosophy.	3
PHIL 367	19th Century Philosophy.	3
PHIL 444	Early Modern Political Theory.	3
PHIL 445	19th Century Political Theory.	3

3 credits from:

Expand allContract all

Course	Title	Credits
PHIL 375	Existentialism.	3
PHIL 474	Phenomenology.	3
PHIL 475	Topics in Contemporary European Philosophy.	3

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 Tutorial 05. below.

Expand allContract all

Course	Title	Credits
PHIL 498	Tutorial 05.	3

Physics Minor (B.A. & Sc.) (18 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
PHYS 257	Experimental Methods 1.	3

Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems.	3
PHYS 251	Honours Classical Mechanics 1.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 232	Heat and Waves.	3
PHYS 253	Thermal Physics.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 241	Signal Processing.	3
PHYS 258	Experimental Methods 2.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 224	Physics of Music.	3
PHYS 228	Energy and the Environment.	3
PHYS 260	Modern Physics and Relativity.	3
PHYS 320	Introductory Astrophysics.	3
PHYS 346	Majors Quantum Physics.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 350	Honours Electricity and Magnetism.	3

Physics Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration Physics, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline. This program is insufficient to prepare a student for professional or graduate work in physics; students interested in pursuing a career in physics are advised to take the appropriate B.Sc. program in physics.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses¹ (30 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3
PHYS 257	Experimental Methods 1.	3
PHYS 333	Thermal and Statistical Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 346	Majors Quantum Physics.	3

1

Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List.

Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
PHYS 224	Physics of Music.	3
PHYS 228	Energy and the Environment.	3
PHYS 241	Signal Processing.	3
PHYS 258	Experimental Methods 2.	3
PHYS 260	Modern Physics and Relativity.	3
PHYS 320	Introductory Astrophysics.	3
PHYS 534	Nanoscience and Nanotechnology.	3

or any 300- or 400-level course approved by an adviser.

Political Science Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Political Science is an 18-credit program in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Complementary Courses (18 credits)

18 credits selected as follows:

6 or 9 POLI credits at the 200 level. Each of these POLI courses must be in a different group, the relevant groups being: Canadian Politics, International Relations, Comparative Politics, Political Theory, and Methods.

The rest of the 18 credits (9 or 12 credits) must come from POLI courses at the 300 or 400 level in any group(s). Note, however, that to take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field.

No more than 6 POLI transfer credits can be used toward the program requirements.

POLI 490 Independent Reading and Research 1. and POLI 499 Honours Essay. are not open to students enrolled in the Minor Concentration.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3
POLI 412	Canadian Voting/Public Opinion.	3
POLI 417	Health Care in Canada.	3

POLI 424	Media and Politics.	3	International Relations	
POLI 426	Partis politiques et comportements électoraux au Québec.	3	Expand allContract all	
POLI 427	Selected Topics: Canadian Politics.	3	Course	Title
POLI 436	Aboriginal Rights in the Canadian Constitution.	3	POLI 243	International Politics of Economic Relations.
			POLI 244	International Politics: State Behaviour.
			POLI 341	Foreign Policy: The Middle East.
			POLI 342	Canadian Foreign Policy.
			POLI 345	International Organizations.
			POLI 346	American Foreign Policy.
			POLI 347	Arab-Israel Conflict, Crisis, Peace.
			POLI 349	Foreign Policy: Asia.
			POLI 350	Global Environmental Politics.
			POLI 351	The Causes of Major Wars.
			POLI 352	International Policy/Foreign Policy: Africa.
			POLI 353	Politics of the International Refugee Regime.
			POLI 354	Approaches to International Political Economy.
			POLI 355	The Politics of International Law.
			POLI 358	Political Economy of International Organizations.
			POLI 359	Topics in International Politics 1.
			POLI 360	Security: War and Peace.
			POLI 362	Political Theory and International Relations.
			POLI 441	International Political Economy: Trade.
			POLI 442	International Relations of Ethnic Conflict.
			POLI 443	Intervention in World Politics.
			POLI 444	Topics in International Politics 2.
			POLI 445	International Political Economy: Monetary Relations.
			POLI 447	Political Economy of Multinationals.
			POLI 448	Gender and International Relations.
			POLI 449	Diplomacy in Practice.
			POLI 450	Peacebuilding.
			POLI 451	The European Union.
			POLI 452	Conflict Simulation.
				Political Theory
				Expand allContract all
			Course	Title
			POLI 231	Introduction to Political Theory.
			POLI 333	Western Political Theory 1.
			POLI 334	Western Political Theory 2.
			POLI 362	Political Theory and International Relations.
			POLI 363	Contemporary Political Theory.
			POLI 364	Radical Political Thought.
			POLI 365	Democratic Theory.
			POLI 366	Topics in Political Theory 1.
			POLI 367	Liberal Political Theory.
			POLI 368	Political Theory and Indigeneity.

POLI 433	History of Political/Social Theory 3.	3
POLI 434	History of Political/Social Theory 4.	3
POLI 458	(De-) Coloniality.	3
POLI 459	Topics in Political Theory 2.	3
POLI 470	Philosophy, Economy and Society.	3

Methods

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3
POLI 313	Introduction to Qualitative Methods in Political Science.	3

Political Science Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Major Concentration in Political Science is a 36-credit program in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics, International Relations, and Political Theory) with the following specifications.

Only POLI courses at the 200-level or above (or their equivalent courses from other universities) can be counted toward this program.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits.

12 of the 36 credits must be taken at the 200 level. No more than 3 credits at the 200 level may be in any given group - the groups being Canadian Politics, Comparative Politics, International Relations, Political Theory, and Methods. All other 24 credits must come from 300- or 400-level POLI courses.

3 credits must be taken at the 400 level at McGill rather than as transfer credits. This requirement cannot be fulfilled with POLI 599 Internship: Political Science..

To take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field. Students are therefore expected to take all their 200-level courses in their first two years.

No more than 12 POLI transfer credits can be used toward the program requirements. POLI Methods courses at McGill do not have equivalencies from courses taken elsewhere.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3
POLI 317	The Politics of Race in Canada.	3
POLI 318	Comparative Local Government.	3
POLI 320	Issues in Canadian Democracy.	3
POLI 321	Issues: Canadian Public Policy.	3
POLI 336	Le Québec et le Canada.	3
POLI 342	Canadian Foreign Policy.	3
POLI 348	Gender and Canadian Politics.	3
POLI 371	Challenge of Canadian Federalism.	3
POLI 372	Indigenous Peoples and the Canadian State.	3
POLI 379	Topics in Canadian Politics.	3
POLI 410	Canadian Political Parties.	3
POLI 412	Canadian Voting/Public Opinion.	3
POLI 417	Health Care in Canada.	3
POLI 424	Media and Politics.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3

			Course	Title	Credits
POLI 427	Selected Topics: Canadian Politics.	3	POLI 243	International Politics of Economic Relations.	3
POLI 436	Aboriginal Rights in the Canadian Constitution.	3	POLI 244	International Politics: State Behaviour.	3

Comparative Politics

Expand allContract all

Course	Title	Credits			
POLI 212	Introduction to Comparative Politics - Europe/ North America.	3	POLI 341	Foreign Policy: The Middle East.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	POLI 342	Canadian Foreign Policy.	3
POLI 316	Black Lives Matter and American Democracy.	3	POLI 345	International Organizations.	3
POLI 318	Comparative Local Government.	3	POLI 346	American Foreign Policy.	3
POLI 319	Politics of Latin America.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 322	Political Change in South Asia.	3	POLI 349	Foreign Policy: Asia.	3
POLI 324	Comparative Politics of Africa.	3	POLI 350	Global Environmental Politics.	3
POLI 325	U.S. Politics.	3	POLI 351	The Causes of Major Wars.	3
POLI 328	Comparing European Democracies.	3	POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 329	Russian Politics.	3	POLI 353	Politics of the International Refugee Regime.	3
POLI 330	Law and Courts in Europe.	3	POLI 354	Approaches to International Political Economy.	3
POLI 331	Politics in East Central Europe.	3	POLI 355	The Politics of International Law.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 358	Political Economy of International Organizations.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 359	Topics in International Politics 1.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 360	Security: War and Peace.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 362	Political Theory and International Relations.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 441	International Political Economy: Trade.	3
POLI 369	Politics of Southeast Asia.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 443	Intervention in World Politics.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 444	Topics in International Politics 2.	3
POLI 420	Memory, Place, and Power.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 421	The Politics of Misinformation.	3	POLI 446	International Law and Politics of Human Rights.	3
POLI 422	Advanced Topics in Comparative Politics 1.	3	POLI 447	Political Economy of Multinationals.	3
POLI 423	Politics of Ethno-Nationalism.	3	POLI 448	Gender and International Relations.	3
POLI 424	Media and Politics.	3	POLI 449	Diplomacy in Practice.	3
POLI 430	Politics of Art.	3	POLI 450	Peacebuilding.	3
POLI 431	Nations and Nationalism.	3	POLI 451	The European Union.	3
POLI 432	Advanced Topics in Comparative Politics 2.	3	POLI 452	Conflict Simulation.	3
POLI 435	Identity and Inequality.	3			
POLI 450	Peacebuilding.	3			
POLI 451	The European Union.	3			
POLI 452	Conflict Simulation.	3			
POLI 473	Democracy and the Market.	3			
POLI 476	Religion and Politics.	3			

International Relations

Expand allContract all

			Course	Title	Credits
			POLI 231	Introduction to Political Theory.	3
			POLI 333	Western Political Theory 1.	3
			POLI 334	Western Political Theory 2.	3
			POLI 362	Political Theory and International Relations.	3
			POLI 363	Contemporary Political Theory.	3
			POLI 364	Radical Political Thought.	3
			POLI 365	Democratic Theory.	3
			POLI 366	Topics in Political Theory 1.	3
			POLI 367	Liberal Political Theory.	3
			POLI 368	Political Theory and Indigeneity.	3
			POLI 433	History of Political/Social Theory 3.	3

POLI 434	History of Political/Social Theory 4.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
POLI 458	(De-) Coloniality.	3	
POLI 459	Topics in Political Theory 2.	3	
POLI 470	Philosophy, Economy and Society.	3	

Methods

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3
POLI 313	Introduction to Qualitative Methods in Political Science.	3

Special courses

Expand allContract all

Course	Title	Credits
POLI 490	Independent Reading and Research 1.	3
POLI 599	Internship: Political Science.	3

Political Science Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours program in Political Science is a 36-credit program at the Honours level in two Arts disciplines. This program focuses on Political Science in four fields: comparative politics, international relations, Canadian politics, and political theory, including empirical methods.

Students may enter the Joint Honours program in U1. To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Course (3 credits)

Course	Title	Credits
POLI 210	Political Science Research Methods.	3

Complementary Courses (33 credits)

33 credits of complementary POLI courses selected with the following specifications:

3 credits must be taken in POLI Methods courses at the 300 or 400 level. The 6-credit methods requirement (including POLI 210 Political Science Research Methods.) can only be fulfilled with courses taken at McGill. Credits transferred from other universities are not accepted for this purpose.

9 credits must be taken at the 200 level with no more than 3 credits in a given substantive field (i.e. Political Theory, Comparative Politics, International Relations, Canadian Politics). The remaining 24 credits must come from POLI courses at the 300 level and above.

At least 9 credits must be taken at the 400 level and above, including one mandatory 500-level Honours Seminar which must be taken at McGill.

No more than one-half (18 credits) of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics, International Relations, Political Theory). However, if the field is Comparative Politics the maximum is 21 credits. Refer to the lists below for course choices in each field.

To take a 300- or 400-level POLI course, students must have taken a 200-level POLI course in the same field. Students are therefore expected to take all their 200-level courses in their first two years.

No more than 12 POLI transfer credits can be used toward the program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

Expand allContract all

Course	Title	Credits
POLI 221	Government of Canada.	3
POLI 222	Political Process and Behaviour in Canada.	3
POLI 226	La vie politique québécoise.	3

POLI 317	The Politics of Race in Canada.	3	POLI 421	The Politics of Misinformation.	3
POLI 318	Comparative Local Government.	3	POLI 422	Advanced Topics in Comparative Politics 1.	3
POLI 320	Issues in Canadian Democracy.	3	POLI 423	Politics of Ethno-Nationalism.	3
POLI 321	Issues: Canadian Public Policy.	3	POLI 424	Media and Politics.	3
POLI 336	Le Québec et le Canada.	3	POLI 430	Politics of Art.	3
POLI 342	Canadian Foreign Policy.	3	POLI 431	Nations and Nationalism.	3
POLI 348	Gender and Canadian Politics.	3	POLI 432	Advanced Topics in Comparative Politics 2.	3
POLI 371	Challenge of Canadian Federalism.	3	POLI 435	Identity and Inequality.	3
POLI 372	Indigenous Peoples and the Canadian State.	3	POLI 450	Peacebuilding.	3
POLI 379	Topics in Canadian Politics.	3	POLI 451	The European Union.	3
POLI 410	Canadian Political Parties.	3	POLI 452	Conflict Simulation.	3
POLI 412	Canadian Voting/Public Opinion.	3	POLI 473	Democracy and the Market.	3
POLI 417	Health Care in Canada.	3	POLI 476	Religion and Politics.	3
POLI 424	Media and Politics.	3	POLI 522	Seminar: Comparative Politics 1.	3
POLI 426	Partis politiques et comportements électoraux au Québec.	3	POLI 524	Seminar: Comparative Politics 2.	3
POLI 427	Selected Topics: Canadian Politics.	3			
POLI 436	Aboriginal Rights in the Canadian Constitution.	3			
POLI 521	Seminar: Canadian Politics and Government.	3			

Comparative Politics

Expand allContract all

Course	Title	Credits	Course	Title	Credits
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	POLI 243	International Politics of Economic Relations.	3
POLI 227	Introduction to Comparative Politics - Global South.	3	POLI 244	International Politics: State Behaviour.	3
POLI 316	Black Lives Matter and American Democracy.	3	POLI 341	Foreign Policy: The Middle East.	3
POLI 318	Comparative Local Government.	3	POLI 342	Canadian Foreign Policy.	3
POLI 319	Politics of Latin America.	3	POLI 345	International Organizations.	3
POLI 322	Political Change in South Asia.	3	POLI 346	American Foreign Policy.	3
POLI 324	Comparative Politics of Africa.	3	POLI 347	Arab-Israel Conflict, Crisis, Peace.	3
POLI 325	U.S. Politics.	3	POLI 349	Foreign Policy: Asia.	3
POLI 328	Comparing European Democracies.	3	POLI 351	The Causes of Major Wars.	3
POLI 329	Russian Politics.	3	POLI 352	International Policy/Foreign Policy: Africa.	3
POLI 330	Law and Courts in Europe.	3	POLI 353	Politics of the International Refugee Regime.	3
POLI 331	Politics in East Central Europe.	3	POLI 354	Approaches to International Political Economy.	3
POLI 338	Topics in Comparative Politics 1.	3	POLI 359	Topics in International Politics 1.	3
POLI 339	Topics in Comparative Politics 2.	3	POLI 360	Security: War and Peace.	3
POLI 340	Comparative Politics of the Middle East.	3	POLI 362	Political Theory and International Relations.	3
POLI 357	Politics: Contemporary Europe.	3	POLI 441	International Political Economy: Trade.	3
POLI 361	Political Participation in Comparative Perspective.	3	POLI 442	International Relations of Ethnic Conflict.	3
POLI 369	Politics of Southeast Asia.	3	POLI 443	Intervention in World Politics.	3
POLI 380	Contemporary Chinese Politics.	3	POLI 444	Topics in International Politics 2.	3
POLI 381	Politics in Japan and South Korea.	3	POLI 445	International Political Economy: Monetary Relations.	3
POLI 420	Memory, Place, and Power.	3	POLI 446	International Law and Politics of Human Rights.	3
			POLI 447	Political Economy of Multinationals.	3
			POLI 448	Gender and International Relations.	3
			POLI 449	Diplomacy in Practice.	3
			POLI 450	Peacebuilding.	3
			POLI 451	The European Union.	3

International Relations

Expand allContract all

POLI 452	Conflict Simulation.	3
POLI 575	Seminar: International Politics.	3

Political Theory

Expand allContract all

Course	Title	Credits
POLI 231	Introduction to Political Theory.	3
POLI 333	Western Political Theory 1.	3
POLI 334	Western Political Theory 2.	3
POLI 362	Political Theory and International Relations.	3
POLI 363	Contemporary Political Theory.	3
POLI 364	Radical Political Thought.	3
POLI 365	Democratic Theory.	3
POLI 366	Topics in Political Theory 1.	3
POLI 367	Liberal Political Theory.	3
POLI 368	Political Theory and Indigeneity.	3
POLI 433	History of Political/Social Theory 3.	3
POLI 434	History of Political/Social Theory 4.	3
POLI 458	(De-) Coloniality.	3
POLI 459	Topics in Political Theory 2.	3
POLI 470	Philosophy, Economy and Society.	3
POLI 561	Seminar: Political Theory.	3

Methods

Expand allContract all

Course	Title	Credits
POLI 210	Political Science Research Methods.	3
POLI 311	Introduction to Quantitative Political Science.	3
POLI 312	Intermediate Quantitative Political Science.	3
POLI 313	Introduction to Qualitative Methods in Political Science.	3

Special Courses

Expand allContract all

Course	Title	Credits
POLI 490	Independent Reading and Research 1.	3
POLI 499	Honours Essay.	3
POLI 599	Internship: Political Science.	3

Psychology Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

Psychology is the scientific study of the mind and behaviour. The B.A. Minor Concentration Psychology (18 credits) is intended to compliment

the student's primary field of study by providing a focused introduction to specialized topics in psychology.

Program Requirements

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.

Program Prerequisites (0-3 credits)

Students planning to enter the Minor Concentration Psychology program should have completed an introductory course in general psychology in CEGEP. Otherwise, they can complete it in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

McGill Freshman students are recommended to complete the following course in their UO year:

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

Complementary Courses (18 credits)

6 credits selected from:

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

12 credits in Psychology at the 300 level or above.

Psychology Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Psychology is the scientific study of the mind and behavior. The B.A. Major Concentration in Psychology (36 credits) provides students with a basic overview, covering the core areas of psychological science as well as more advanced courses in specialized content areas. Students also have the option to complete a research course(s) (see Program Requirements for details). Note: this program may not

provide sufficient undergraduate background preparation for certain graduate programs. Students who wish to go on to graduate training in psychology, and those who wish to complete the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs), are advised to take the supplementary Minor Concentration Behavioural Science. This specialization option will give students the space to take the additional courses they may need for such applications.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-6 credits)

Students planning to enter the Major Concentration Psychology program should have completed an introductory course in general psychology and biology in CEGEP. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology in their first year.

Students who have completed Human Biology or General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 115 Essential Biology or BIOL 111 Principles: Organismal Biology or BIOL 112 Cell and Molecular Biology during their first year.

McGill Freshman students are recommended to complete the following courses in their U0 year:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

And

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
BIOL 115	Essential Biology.	3

Required Courses (18 credits)

U1

Expand allContract all

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

U1 or U2

Expand allContract all

Course	Title	Credits
PSYC 305	Statistics for Experimental Design.	3

¹ Students who wish to apply to the Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design, in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms). For additional information about applying to Honours, please refer to the Honours program description.

Advising note for PSYC 204 Introduction to Psychological Statistics.: CEGEP students are exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed, with a minimum grade of 75%, the following two courses:

1. Quantitative Methods and either
2. Advanced Quantitative Methods or Statistics for Social Science.

CEGEP students are also exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

Bachelor of Arts students exempt from PSYC 204 Introduction to Psychological Statistics. replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

Complementary Courses (18 credits)

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

6 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

Expand allContract all

Course	Title	Credits	
NSCI 201	Introduction to Neuroscience 2.	3	
PSYC 301	Animal Learning and Theory.	3	
PSYC 302	Pain.	3	
PSYC 306	Research Methods in Psychology.	3	
PSYC 310	Intelligence.	3	
PSYC 311	Human Cognition and the Brain.	3	
PSYC 315	Computational Psychology.	3	
PSYC 317	Genes and Behaviour.	3	
PSYC 318	Behavioural Neuroscience 2.	3	
PSYC 319	Computational Models - Cognition.	3	
PSYC 329	Introduction to Auditory Cognition.	3	
PSYC 340	Psychology of Language.	3	
PSYC 341	The Psychology of Bilingualism.	3	
PSYC 342	Hormones and Behaviour.	3	
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3	
PSYC 353	Research Methods and Laboratory in Human Perception.	3	
PSYC 403	Modern Psychology in Historical Perspective.	3	
PSYC 406	Psychological Tests.	3	
PSYC 410	Special Topics in Neuropsychology.	3	
PSYC 413	Cognitive Development.	3	
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3	
PSYC 427	Sensorimotor Neuroscience.	3	
PSYC 433	Cognitive Science.	3	
PSYC 439	Correlational Techniques.	3	
PSYC 443	Affective Neuroscience.	0-3	
PSYC 444	Sleep Mechanisms and Behaviour.	3	
PSYC 470	Memory and Brain.	3	
PSYC 502	Psychoneuroendocrinology.	3	
PSYC 506	Cognitive Neuroscience of Attention.	3	
PSYC 513	Human Decision-Making.	3	
PSYC 514	Neurobiology of Memory.	3	
PSYC 522	Neurochemistry and Behaviour.	3	
PSYC 526	Advances in Visual Perception.	3	
PSYC 529	Music Cognition.	3	
PSYC 531	Structural Equation Models.	3	
PSYC 537	Advanced Seminar in Psychology of Language.	3	
PSYC 538	Categorization, Communication and Consciousness.	3	
PSYC 541	Multilevel Modelling.	3	
PSYC 545	Topics in Language Acquisition.	3	
PSYC 560	Machine Learning Tools in Psychology. ¹	3	
PSYC 562	Measurement of Psychological Processes.	3	

- ¹ 1. Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken freshman linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
2. Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology ..

List B - (Social, Health and Developmental Psychology)

Expand allContract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 309	Positive Psychology: Science of Well-Being.	3
PSYC 328	Health Psychology.	3
PSYC 331	Inter-Group Relations.	3
PSYC 332	Introduction to Personality.	3
PSYC 333	Personality and Social Psychology.	3
PSYC 337	Introduction to Psychopathology.	3
PSYC 339	Introduction to Applied Psychology.	3
PSYC 351	Research Methods and Laboratory in Social Psychology.	3
PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 409	Positive Psychology.	3
PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3
PSYC 412	Child Development: Psychopathology .	3
PSYC 414	Social Development.	3
PSYC 436	Human Sexuality and Its Problems.	3
PSYC 471	Human Motivation.	3
PSYC 473	Social Cognition and the Self.	3
PSYC 474	Interpersonal Relationships.	3
PSYC 475	Neuroscience of Social Psychology.	3
PSYC 483	Seminar in Experimental Psychopathology.	3
PSYC 491D1	Advanced Study: Behavioural Disorders.	3
PSYC 491D2	Advanced Study: Behavioural Disorders.	3
PSYC 507	Emotions, Stress, and Illness.	3
PSYC 509	Diverse Clinical Populations.	3
PSYC 512	Advanced Personality Seminar.	3
PSYC 528	Vulnerability to Depression and Anxiety.	3

PSYC 530	Applied Topics in Deafness.	3	program at the end of U1; students may apply at the end of U2, although there are often fewer seats for students applying in U2 (also the B.A. Joint Honours program requirements must be completed within the remaining terms). To be eligible to apply to the B.A. Joint Honours in Psychology, students must have completed a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). All applicants must have taken PSYC 204 Introduction to Psychological Statistics., PSYC 211 Introductory Behavioural Neuroscience., PSYC 212 Perception., PSYC 213 Cognition., PSYC 215 Social Psychology. and PSYC 305 Statistics for Experimental Design.. Exceptional performance in these courses is a primary criterion for acceptance into the B.A. Joint Honours program. In addition to performance in these psychology courses, a minimum cumulative grade point average (CGPA) of 3.50 is required to apply. However, since enrolment is limited, the typical CGPA cut-off is ~3.75, although this varies from year to year depending on the applicant pool. Once in the B.A. Joint Honours program, students must obtain a GPA of 3.00 in the U2 year to continue in the B.A. Joint Honours program for U3. Students are also encouraged to continue to complete a minimum of 27 graded credits in their U2 and U3 academic years. This is also the minimum number of credits required to be eligible for fellowships and awards.
PSYC 535	Advanced Topics in Social Psychology.	3	
PSYC 539	Advanced Topics in Social Psychology 2.	3	

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

Expand allContract all

Course	Title	Credits
PSYC 385	Independent Research Project 1.	3
PSYC 450D1	Research Project and Seminar.	4.5
PSYC 450D2	Research Project and Seminar.	4.5
PSYC 484D1	Independent Research Project 2.	3
PSYC 484D2	Independent Research Project 2.	3
PSYC 485	Independent Research Project 3.	3
PSYC 492	Special Topics Seminar 1.	3
PSYC 493	Special Topics Seminar 2.	3
PSYC 499	Reading Project.	1

Psychology Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Psychology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

Psychology is the scientific study of the mind and behavior. The B.A.; Joint Honours Psychology Component (36 credits) provides students with an overview of psychological science, covering the core areas as well as select advanced courses. Students are required to take a 2-term research course and seminar; students also have the option to complete an additional research course (see Program Requirements for details). This program emphasizes practice in the research techniques and statistics used in graduate school and professionally later on. However, the Joint Honours Program is not as comprehensive as the B.A. or B.Sc. Honours Program, and does not give students the space to take the additional courses they may need for certain graduate programs in psychology or to complete the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs). Students must apply to the Joint Honours program; admission is selective.

Program Requirements

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection.

Admission to the B.A. Joint Honours Component Psychology is highly selective. Typically, students apply to the B.A. Joint Honours

The application is available on the Psychology Department website at: <https://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the website. Candidates will be informed of the Department's decision via email before classes begin in September.

Awarding of the B.A. Joint Honours program will depend on both CGPA and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "Joint Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology..

In addition to the requirements of the B.A. Joint Honours Component Psychology, students must also complete all requirements of their other Joint Honours component.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-6 credits)

Students planning to enter the B.A. Joint Honours Psychology program, should have completed an introductory course in general psychology, biology and statistics at the CEGEP level. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

Students who have completed Human Biology or General 1or 2 in CEGEP would have the recommended biology background.

Student who have not completed ones of those courses are advised to complete BIOL 115 Essential Biology. or BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

McGill Freshman students are recommended to complete the following courses in their U0 year:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
BIOL 115	Essential Biology.	3

Required Courses (33 credits)

U1

Expand allContract all

Course	Title	Credits
PSYC 204	Introduction to Psychological Statistics. ¹	3
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

¹ Advising note for PSYC 204 Introduction to Psychological Statistics.: CEGEP students are exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed, with a minimum grade of 75%, the following two courses: 1) Quantitative Methods

and either 2a) Advanced Quantitative Methods or 2b) Statistics for Social Science. CEGEP students are also exempt from PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%. Bachelor of Arts students exempt from PSYC 204 Introduction to Psychological Statistics. replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

U1 or U2

Expand allContract all

Course	Title	Credits
PSYC 305	Statistics for Experimental Design. ¹	3

¹ Note: Students who wish to apply to the Joint Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design. in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). For additional information about applying to Joint Honours, please refer to the Joint Honours program description.

U2

Expand allContract all

Course	Title	Credits
PSYC 306	Research Methods in Psychology.	3
PSYC 380D1	Honours Research Project Seminar.	4.5
PSYC 380D2	Honours Research Project Seminar.	4.5

U2 or U3

Expand allContract all

Course	Title	Credits
PSYC 439	Correlational Techniques.	3

Complementary Course (3 credits)

3 credits in Psychology at the 400 or 500 level.

Religious Studies Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.A. Minor Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits			
RELG 207	Introduction to the Study of Religions.	3	CATH 370AA	Indigenous Religiosity and Spirituality.	3
			CATH 375AA	Topics in Catholic Theology	3
			HIST 427	The Hasidic Movement.	3
			ISLA 310	Women in Islam.	3
			ISLA 390	Islamic Reform and Radicalism: Middle East	3
			ISLA 421	Islamic Culture - Indian Subcontinent.	3
			ISLA 530	Advanced Sufism	3

Complementary Courses (15 credits)

6 credits of Introductory Courses at the 200 level.

Expand allContract all

Course	Title	Credits			
ANTH 209	Anthropology of Religion.	3	JWST 334	Jews and Muslims: A Modern History.	3
CATH 200	Introduction to Catholicism.	3	JWST 382	Jews, Judaism and Social Justice.	3
CATH 220	Selected Topics in Catholic Studies.	3	RELG 300	Second Temple Judaism.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3	RELG 302	Literature of Ancient Israel 1.	3
HIST 219	Jewish History: 1000 - 2000.	3	RELG 303	Literature of Ancient Israel 2.	3
ISLA 200	Islamic Civilization.	3	RELG 307	Bible, Quran and Interpretations.	3
ISLA 210	Muslim Societies.	3	RELG 309	World Religions and Cultures They Create..	3
JWST 201	Jewish Law.	3	RELG 310	Canadian Church History.	3
JWST 211	Jewish Studies 1: Biblical Period.	3	RELG 311	Formation of the New Testament.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3	RELG 312	The Gospels.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3	RELG 315AA	Indigenous Religiosity and Spirituality	3
JWST 245	Jewish Life in the Islamic World.	3	RELG 316	New Religious Movements.	3
JWST 254	The Jewish Holy Days.	3	RELG 317	Special Topics in Religion 2.	3
JWST 261	History of Jewish Philosophy and Thought.	3	RELG 318	Special Topics in Religion 3.	3
RELG 201	Religions of the Ancient Near East.	3	RELG 319	Special Topics in Religion 4.	3
RELG 202	Religion of Ancient Israel.	3	RELG 322	Church and Empire to 1300 .	3
RELG 203	Bible and Western Culture.	3	RELG 323	Church and State since 1300.	3
RELG 204	Judaism, Christianity and Islam.	3	RELG 325	Varieties Religious Experience in Christianity.	3
RELG 205	Death and Dying.	3	RELG 326	Christians in the Roman World.	3
RELG 210	Jesus of Nazareth.	3	RELG 331	Religion and Globalization.	3
RELG 211	Theology through Fiction.	3	RELG 332	Conversations Across World Religions.	3
RELG 252	Hinduism and Buddhism.	3	RELG 333	Principles of Theology.	3
RELG 253	Religions of East Asia.	3	RELG 334	Theology of History.	3
RELG 254	Introduction to Yoga Traditions.	3	RELG 336	Contemporary Theological Issues.	3
RELG 270	Religious Ethics and the Environment.	3	RELG 337	Themes in Buddhist Studies.	3
RELG 271	Religion and Sexuality.	3	RELG 338	Women and the Christian Tradition.	3
RELG 288	Introduction to Sikhism.	3	RELG 341	Introduction: Philosophy of Religion.	3

9 credits of Advanced Courses at the 300 level or higher.

Expand allContract all

Course	Title	Credits			
CATH 310	Catholic Intellectual Traditions.	3	RELG 352	Japanese Religions: History and Thought.	3
CATH 320	Catholicism and Modernity.	3	RELG 354	Chinese Religions.	3
CATH 325	Mystery and the Imagination.	3	RELG 358	Religion and Cinema in India.	3
CATH 330	Catholicism in a Global Context.	3	RELG 366	Rivers, Religion, and Environment in South Asia.	3
CATH 335	Confessions of Saint Augustine.	3	RELG 368	Japanese Religions in Pop Culture.	3
CATH 340	Catholicism and Public Policy.	3	RELG 369	Tibetan Buddhism.	3
CATH 460	Catholic Studies Seminar.	3	RELG 370	Religion and Human Rights.	3
			RELG 372	Hindu Goddesses.	3

RELG 373	Christian Ethics of Love.	3	Degree: Bachelor of Arts; Bachelor of Arts and Science Program credit weight: 36
RELG 375	Religion, Politics and Society.	3	
RELG 376	Religious Ethics.	3	
ISLA 375	Sufi Women	3	
RELG 378	Pilgrimage, Heritage, and Tourism.	3	The B.A. Major Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.
RELG 379	Eastern Orthodox Christianity.	3	
RELG 380	Religion, Philosophy, Modernity.	3	
RELG 382	Contemporary Theory of Religion.	3	Degree Requirements – B.A. students To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.
RELG 384	Religion and Public Policy.	3	
RELG 398	North American Christianity.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
RELG 399	Christian Spirituality.	3	
RELG 407	The Writings.	3	Degree Requirements – B.A. & Sc. students
RELG 408	The Prophets.	3	<i>This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.</i>
RELG 419	Religious Heritage and Tourism.	3	
RELG 422	Medieval Religious Texts.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
RELG 423	Reformation Thought.	3	
RELG 434	Advanced Theology.	3	
RELG 440	Global Islam.	3	
RELG 444	Indian Ocean Religious Networks.	3	
RELG 445	Modern Buddhism.	3	
RELG 449	The Religion of the Samurai.	3	
RELG 450	The Way of the Kami.	3	
RELG 451	Zen Buddhism: Poetry and Art.	3	
RELG 453	Vajrayana Buddhism.	3	
RELG 455	Religion, Performance and Agency in South Asia	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
RELG 470	Theological Ethics.	3	
RELG 479	Christianity in Global Perspective.	3	
RELG 502	Greco-Roman Judaism.	3	
RELG 544	Ethnography as Method in Religious Studies.	3	
RELG 545	Ramayana: Multiple Lives.	3	
RELG 547	Special Topics in Hinduism.	3	
RELG 548	Indian Buddhist Philosophy.	3	
RELG 551	Special Topics in Buddhism.	3	
RELG 552	Advaita Vedanta.	3	
RELG 556	Issues in Buddhist Studies.	3	
RELG 558	Indian Tantric Traditions.	3	
RELG 560	Buddhist Poetry.	3	
RELG 570	Research in Interfaith Studies.	3	
RELG 571	Ethics, Medicine and Religion.	3	
RELG 572	Religion and Global Politics.	3	

Religious Studies Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Religious Studies (Faculty of Arts)

Program Description

The B.A. Major Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (6 credits)

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3
RELG 456	Theories of Religion.	3

Complementary Courses (30 credits)

3-9 credits of Introductory Courses at the 200 level.

Course	Title	Credits
ANTH 209	Anthropology of Religion.	3
CATH 200	Introduction to Catholicism.	3
CATH 220	Selected Topics in Catholic Studies.	3
HIST 207	Jewish History: 400 B.C.E. to 1000.	3
HIST 219	Jewish History: 1000 - 2000.	3
ISLA 200	Islamic Civilization.	3
ISLA 210	Muslim Societies.	3
JWST 201	Jewish Law.	3
JWST 211	Jewish Studies 1: Biblical Period.	3
JWST 216	Jewish Studies 2: 400 B.C.E. - 1000.	3
JWST 217	Jewish Studies 3: 1000 - 2000.	3

JWST 245	Jewish Life in the Islamic World.	3	RELG 381	Advanced New Testament Greek.	3
JWST 254	The Jewish Holy Days.	3	RELG 390D1	Elementary Biblical Hebrew.	3
JWST 261	History of Jewish Philosophy and Thought.	3	RELG 390D2	Elementary Biblical Hebrew.	3
RELG 201	Religions of the Ancient Near East.	3	RELG 457D1	Advanced Sanskrit.	3
RELG 202	Religion of Ancient Israel.	3	RELG 457D2	Advanced Sanskrit.	3
RELG 203	Bible and Western Culture.	3	RELG 464	Advanced Tibetan 1.	3
RELG 204	Judaism, Christianity and Islam.	3	RELG 465	Advanced Tibetan 2.	3
RELG 205	Death and Dying.	3	RELG 491	Biblical Hebrew Narratives.	3
RELG 210	Jesus of Nazareth.	3	RELG 492	Biblical Hebrew Poetry.	3
RELG 211	Theology through Fiction.	3	15-21 credits of Advanced Courses at the 300 level or higher.		
RELG 212	Introduction to African Religions and Cultures	3	Expand allContract all		
RELG 252	Hinduism and Buddhism.	3	Course	Title	Credits
RELG 253	Religions of East Asia.	3	CATH 310	Catholic Intellectual Traditions.	3
RELG 254	Introduction to Yoga Traditions.	3	CATH 320	Catholicism and Modernity.	3
RELG 257D1	Introductory Sanskrit.	3	CATH 325	Mystery and the Imagination.	3
RELG 257D2	Introductory Sanskrit.	3	CATH 330	Catholicism in a Global Context.	3
RELG 270	Religious Ethics and the Environment.	3	CATH 335	Confessions of Saint Augustine.	3
RELG 271	Religion and Sexuality.	3	CATH 340	Catholicism and Public Policy.	3
RELG 279	New Testament Greek 1.	3	CATH 460	Catholic Studies Seminar.	3
RELG 288	Introduction to Sikhism.	3	CATH 370AA	Indigenous Religiosity and Spirituality.	3
0-12 credits of Classical language courses.			CATH 375AA	Topics in Catholic Theology	3
Expand allContract all			HIST 427	The Hasidic Movement.	3
Course	Title	Credits	ISLA 310	Women in Islam.	3
CLAS 210	Introductory Latin 1.	3	ISLA 375	Sufi Women	3
CLAS 212	Introductory Latin 2.	3	ISLA 390	Islamic Reform and Radicalism: Middle East	3
CLAS 215	Intensive Introductory Latin.	6	ISLA 421	Islamic Culture - Indian Subcontinent.	3
CLAS 220	Introductory Ancient Greek 1.	3	ISLA 530	Advanced Sufism	3
CLAS 222	Introductory Ancient Greek 2.	3	JWST 334	Jews and Muslims: A Modern History.	3
CLAS 225	Intensive Introductory Ancient Greek.	6	JWST 382	Jews, Judaism and Social Justice.	3
CLAS 310	Intermediate Latin 1.	3	RELG 300	Second Temple Judaism.	3
CLAS 312	Intermediate Latin 2.	3	RELG 302	Literature of Ancient Israel 1.	3
CLAS 315	Intermediate Latin 2: Selections.	3	RELG 303	Literature of Ancient Israel 2.	3
CLAS 320	Intermediate Ancient Greek 1.	3	RELG 307	Bible, Quran and Interpretations.	3
CLAS 322	Intermediate Ancient Greek 2.	3	RELG 309	World Religions and Cultures They Create..	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3	RELG 310	Canadian Church History.	3
ISLA 322D1	Lower Intermediate Arabic.	3	RELG 311	Formation of the New Testament.	3
ISLA 322D2	Lower Intermediate Arabic.	3	RELG 312	The Gospels.	3
RELG 257D1	Introductory Sanskrit.	3	RELG 315AA	Indigenous Religiosity and Spirituality	3
RELG 257D2	Introductory Sanskrit.	3	RELG 316	New Religious Movements.	3
RELG 264	Introductory Tibetan 1.	3	RELG 317	Special Topics in Religion 2.	3
RELG 265	Introductory Tibetan 2.	3	RELG 318	Special Topics in Religion 3.	3
RELG 357D1	Sanskrit 2.	3	RELG 319	Special Topics in Religion 4.	3
RELG 357D2	Sanskrit 2.	3	RELG 322	Church and Empire to 1300 .	3
RELG 364	Intermediate Tibetan 1.	3	RELG 323	Church and State since 1300.	3
RELG 365	Intermediate Tibetan 2.	3	RELG 325	Varieties Religious Experience in Christianity.	3

RELG 326	Christians in the Roman World.	3	RELG 459	Bhagavadgita and Mahabharata .	3
RELG 331	Religion and Globalization.	3	RELG 470	Theological Ethics.	3
RELG 332	Conversations Across World Religions.	3	RELG 479	Christianity in Global Perspective.	3
RELG 333	Principles of Theology.	3	RELG 502	Greco-Roman Judaism.	3
RELG 334	Theology of History.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 336	Contemporary Theological Issues.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 547	Special Topics in Hinduism.	3
RELG 338	Women and the Christian Tradition.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 551	Special Topics in Buddhism.	3
RELG 344	Mahayana Buddhism.	3	RELG 552	Advaita Vedanta.	3
RELG 348	Classical Hinduism.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 350	Bhakti Hinduism.	3	RELG 558	Indian Tantric Traditions.	3
RELG 352	Japanese Religions: History and Thought.	3	RELG 560	Buddhist Poetry.	3
RELG 353	Gandhi: His Life and Thought.	3	RELG 570	Research in Interfaith Studies.	3
RELG 354	Chinese Religions.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 358	Religion and Cinema in India.	3	RELG 572	Religion and Global Politics.	3
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 379	Eastern Orthodox Christianity.	3			
RELG 380	Religion, Philosophy, Modernity.	3			
RELG 382	Contemporary Theory of Religion .	3			
RELG 398	North American Christianity.	3			
RELG 399	Christian Spirituality.	3			
RELG 407	The Writings.	3			
RELG 408	The Prophets.	3			
RELG 410	Paul and His Legacy.	3			
RELG 419	Religious Heritage and Tourism.	3			
RELG 422	Medieval Religious Texts.	3			
RELG 423	Reformation Thought.	3			
RELG 434	Advanced Theology.	3			
RELG 440	Global Islam.	3			
RELG 444	Indian Ocean Religious Networks.	3			
RELG 445	Modern Buddhism.	3			
RELG 449	The Religion of the Samurai.	3			
RELG 450	The Way of the Kami.	3			
RELG 451	Zen Buddhism: Poetry and Art.	3			
RELG 453	Vajrayana Buddhism.	3			
RELG 455	Religion, Performance and Agency in South Asia	3			

Religious Studies Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The B.A.; Joint Honours - Religious Studies Component focuses on the methodological approaches to the study of religious traditions, including the teachings, and history of those traditions.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable). A 3-credit Joint Honours thesis related to the student's area of focus must be submitted. The Joint Honours thesis topic must be approved by a Religious Studies adviser. A supervisor will be appointed to guide the student.

Students in Joint Honours program must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each component of the Joint Honours program.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
RELG 207	Introduction to the Study of Religions.	3
RELG 456	Theories of Religion.	3
RELG 489	Joint Honours Thesis.	3

Complementary Courses (27 credits)

6 credits from core courses:

Expand allContract all

Course	Title	Credits
CATH 220	Selected Topics in Catholic Studies.	3
RELG 201	Religions of the Ancient Near East.	3
RELG 202	Religion of Ancient Israel.	3
RELG 203	Bible and Western Culture.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 210	Jesus of Nazareth.	3
RELG 212	Introduction to African Religions and Cultures	3
RELG 252	Hinduism and Buddhism.	3
RELG 253	Religions of East Asia.	3
RELG 254	Introduction to Yoga Traditions.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 271	Religion and Sexuality.	3

0-6 credits of Classical language courses:

Expand allContract all

Course	Title	Credits
CLAS 210	Introductory Latin 1.	3
CLAS 212	Introductory Latin 2.	3
CLAS 215	Intensive Introductory Latin.	6
CLAS 220	Introductory Ancient Greek 1.	3
CLAS 222	Introductory Ancient Greek 2.	3
CLAS 225	Intensive Introductory Ancient Greek.	6

CLAS 310	Intermediate Latin 1.	3
CLAS 312	Intermediate Latin 2.	3
CLAS 315	Intermediate Latin 2: Selections.	3
CLAS 320	Intermediate Ancient Greek 1.	3
CLAS 322	Intermediate Ancient Greek 2.	3
CLAS 326	Intermediate Ancient Greek 2: Selections.	3
ISLA 322D1	Lower Intermediate Arabic.	3
ISLA 322D2	Lower Intermediate Arabic.	3
RELG 257D1	Introductory Sanskrit.	3
RELG 257D2	Introductory Sanskrit.	3
RELG 264	Introductory Tibetan 1.	3
RELG 265	Introductory Tibetan 2.	3
RELG 357D1	Sanskrit 2.	3
RELG 357D2	Sanskrit 2.	3
RELG 364	Intermediate Tibetan 1.	3
RELG 365	Intermediate Tibetan 2.	3
RELG 381	Advanced New Testament Greek.	3
RELG 390D1	Elementary Biblical Hebrew.	3
RELG 390D2	Elementary Biblical Hebrew.	3
RELG 457D1	Advanced Sanskrit.	3
RELG 457D2	Advanced Sanskrit.	3
RELG 464	Advanced Tibetan 1.	3
RELG 465	Advanced Tibetan 2.	3
RELG 491	Biblical Hebrew Narratives.	3
RELG 492	Biblical Hebrew Poetry.	3
15-21 credits from advanced courses at the 300 level or higher:		
Expand allContract all		
Course	Title	Credits
CATH 335	Confessions of Saint Augustine.	3
RELG 300	Second Temple Judaism.	3
CATH 375AA	Topics in Catholic Theology	3
ISLA 375	Sufi Women	3
ISLA 421	Islamic Culture - Indian Subcontinent.	3
ISLA 530	Advanced Sufism	3
RELG 302	Literature of Ancient Israel 1.	3
RELG 303	Literature of Ancient Israel 2.	3
RELG 307	Bible, Quran and Interpretations.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 311	Formation of the New Testament.	3
RELG 312	The Gospels.	3
RELG 315	Special Topics in Religion 1.	3
RELG 316	New Religious Movements.	3
RELG 317	Special Topics in Religion 2.	3
RELG 318	Special Topics in Religion 3.	3
RELG 319	Special Topics in Religion 4.	3

RELG 322	Church and Empire to 1300 .	3	RELG 479	Christianity in Global Perspective.	3
RELG 323	Church and State since 1300.	3	RELG 502	Greco-Roman Judaism.	3
RELG 325	Varieties Religious Experience in Christianity.	3	RELG 544	Ethnography as Method in Religious Studies.	3
RELG 326	Christians in the Roman World.	3	RELG 545	Ramayana: Multiple Lives.	3
RELG 331	Religion and Globalization.	3	RELG 547	Special Topics in Hinduism.	3
RELG 332	Conversations Across World Religions.	3	RELG 548	Indian Buddhist Philosophy.	3
RELG 333	Principles of Theology.	3	RELG 551	Special Topics in Buddhism.	3
RELG 334	Theology of History.	3	RELG 552	Advaita Vedanta.	3
RELG 336	Contemporary Theological Issues.	3	RELG 556	Issues in Buddhist Studies.	3
RELG 337	Themes in Buddhist Studies.	3	RELG 558	Indian Tantric Traditions.	3
RELG 338	Women and the Christian Tradition.	3	RELG 560	Buddhist Poetry.	3
RELG 341	Introduction: Philosophy of Religion.	3	RELG 570	Research in Interfaith Studies.	3
RELG 344	Mahayana Buddhism.	3	RELG 571	Ethics, Medicine and Religion.	3
RELG 348	Classical Hinduism.	3	RELG 572	Religion and Global Politics.	3
RELG 350	Bhakti Hinduism.	3			
RELG 352	Japanese Religions: History and Thought.	3			
RELG 353	Gandhi: His Life and Thought.	3			
RELG 354	Chinese Religions.	3			
RELG 358	Religion and Cinema in India.	3			
RELG 366	Rivers, Religion, and Environment in South Asia.	3			
RELG 368	Japanese Religions in Pop Culture.	3			
RELG 369	Tibetan Buddhism.	3			
RELG 370	Religion and Human Rights.	3			
RELG 372	Hindu Goddesses.	3			
RELG 373	Christian Ethics of Love.	3			
RELG 375	Religion, Politics and Society.	3			
RELG 376	Religious Ethics.	3			
RELG 378	Pilgrimage, Heritage, and Tourism.	3			
RELG 380	Religion, Philosophy, Modernity.	3			
RELG 382	Contemporary Theory of Religion .	3			
RELG 399	Christian Spirituality.	3			
RELG 407	The Writings.	3			
RELG 408	The Prophets.	3			
RELG 419	Religious Heritage and Tourism.	3			
RELG 422	Medieval Religious Texts.	3			
RELG 423	Reformation Thought.	3			
RELG 434	Advanced Theology.	3			
RELG 440	Global Islam.	3			
RELG 444	Indian Ocean Religious Networks.	3	HIST 249	Health and the Healer in Western History.	3
RELG 449	The Religion of the Samurai.	3	HIST 319	The Scientific Revolution.	3
RELG 451	Zen Buddhism: Poetry and Art.	3	HIST 335	Science and Medicine in Canada.	3
RELG 453	Vajrayana Buddhism.	3	HIST 356	Medicine in the Medieval West.	3
RELG 455	Religion, Performance and Agency in South Asia	3	HIST 381	Colonial Africa.	3
RELG 459	Bhagavadgita and Mahabharata .	3	HIST 424	Gender, Sexuality and Medicine.	3
RELG 470	Theological Ethics.	3	HIST 430	Topics in Modern Medicine.	3

Social Studies of Medicine Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Social Studies of Medicine (Faculty of Medicine and Health Sciences)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

Expand allContract all

Course	Title	Credits
HIST 249	Health and the Healer in Western History.	3
HIST 319	The Scientific Revolution.	3
HIST 335	Science and Medicine in Canada.	3
HIST 356	Medicine in the Medieval West.	3
HIST 381	Colonial Africa.	3
HIST 424	Gender, Sexuality and Medicine.	3
HIST 430	Topics in Modern Medicine.	3

			Course	Title	Credits
HIST 452AA	Topics in Pre-Modern Medicine.	3	SOCI 210	Sociological Perspectives.	3
HIST 457AA	Topics in Medical History.	3	SOCI 211	Sociological Inquiry.	3
HIST 558	Modern Medicine: Seminar.	3			
HIST 559	Modern Medicine: Research.	3			
HIST 567D1	Seminar: Medieval Medicine.	3			
HIST 567D2	Seminar: Medieval Medicine.	3			

Anthropology of Medicine

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ANTH 302	New Horizons in Medical Anthropology.	3
ANTH 314	Psychological Anthropology 01.	3
ANTH 325	Anthropology of the Self.	3
ANTH 407	Anthropology of the Body.	3
ANTH 423	Mind, Brain and Psychopathology.	3
ANTH 438	Topics in Medical Anthropology.	3
ANTH 480	Special Topic 5.	3
ANTH 481	Special Topic 6.	3

Sociology of Medicine

Expand allContract all

Course	Title	Credits
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 365	Health and Development.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 588	Biosociology/Biodemography.	3

Sociology Minor Concentration (B.A. & Sc.) (18 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

Expand allContract all

Complementary Courses (12 credits)

3 credits from the following:

Expand allContract all	Course	Title	Credits
	SOCI 330	Sociological Theory.	3
	SOCI 350	Statistics in Social Research.	3

9 credits of complementary courses chosen from the list of courses offered by the Sociology Department. At least 3 credits must be taken at the 300-level or higher.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand allContract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3
SOCI 388	Crime.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3

SOCI 515	Medicine and Society.	3	SOCI 366	Neighborhoods and Inequality .	3
SOCI 525	Health Care Systems in Comparative Perspective.	3	SOCI 375	Suspect Minorities in Canada.	3
SOCI 535	Sociology of the Family.	3	SOCI 410	Urban Ethnography.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3	SOCI 415	Education and Inequality.	3
SOCI 571	Deviance and Social Control.	3	SOCI 430	Sociology of Citizenship.	3
Politics and Social Change					
Expand allContract all					
Course	Title	Credits			
SOCI 212	International Migration.	3	SOCI 505	Sociology of Digital Intimacy	3
SOCI 222	Urban Sociology.	3	SOCI 520	Migration and Immigrant Groups.	3
SOCI 234	Population and Society.	3	SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 245	The Sociology of Emotions.	3	SOCI 530	Sex and Gender.	3
SOCI 254	Development and Underdevelopment.	3			
SOCI 255	Gender and the State.	3			
SOCI 307	Globalization.	3			
SOCI 326	Political Sociology 01.	3			
SOCI 345	Topics in Sociology.	3			
SOCI 354	Dynamics of Industrial Societies.	3			
SOCI 365	Health and Development.	3			
SOCI 370	Sociology: Gender and Development.	3			
SOCI 386	Contemporary Social Movements.	3			
SOCI 400	Comparative Migration and Citizenship.	3			
SOCI 424	Networks and Social Structures.	3			
SOCI 430	Sociology of Citizenship.	3			
SOCI 446	Colonialism and Society.	3			
SOCI 455	Post-Socialist Societies.	3			
SOCI 484	Emerging Democratic States.	3			
SOCI 495	Social Problems and Conflicts.	3			
SOCI 507	Social Change.	3			
SOCI 519	Gender and Globalization.	3			
SOCI 545	Sociology of Population.	3			
SOCI 550	Developing Societies.	3			

Social Stratification: Class, Ethnicity, and Gender

Expand allContract all

Course	Title	Credits
SOCI 227	Jews in North America.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 255	Gender and the State.	3
SOCI 270	Sociology of Gender.	3
SOCI 300	Sociology of Sexualities	3
SOCI 321	Gender and Work.	3
SOCI 333	Social Stratification.	3
SOCI 335	Sociology of Aging and the Life Course.	3
SOCI 355	Rural Life in a Global Society.	3

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits
SOCI 235	Technology and Society.	3
SOCI 301	Artificial Intelligence and Society	3
SOCI 304	Sociology of the Welfare State.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3
SOCI 420	Organizations.	3
SOCI 470	Topics in Economic Sociology.	3

Sociology Major Concentration (B.A. & Sc.) (36 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses

U1 Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 Statistics in Social Research must replace it with another 300-level or higher sociology course.

Expand allContract all

Course	Title	Credits
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

Expand allContract all

Course	Title	Credits
SOCI 341	Current Problems in Sociology 02.	3
SOCI 342	Independent Study 1.	3
SOCI 343	Independent Study 2.	3
SOCI 441	Current Problems in Sociology 03.	3
SOCI 442	Independent Reading and Research 01.	3
SOCI 443	Independent Reading and Research 02.	3

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change

- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand allContract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3
SOCI 388	Crime.	3
SOCI 430	Sociology of Citizenship.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 571	Deviance and Social Control.	3
SOCI 595	Migration Governance and Stratification.	3

Politics and Social Change

Expand allContract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3

SOCI 345	Topics in Sociology.	3	SOCI 312	Sociology of Work and Industry.	3
SOCI 354	Dynamics of Industrial Societies.	3	SOCI 325	Sociology of Science.	3
SOCI 365	Health and Development.	3	SOCI 420	Organizations.	3
SOCI 370	Sociology: Gender and Development.	3	SOCI 470	Topics in Economic Sociology.	3
SOCI 386	Contemporary Social Movements.	3			
SOCI 400	Comparative Migration and Citizenship.	3			
SOCI 424	Networks and Social Structures.	3			
SOCI 430	Sociology of Citizenship.	3			
SOCI 446	Colonialism and Society.	3			
SOCI 455	Post-Socialist Societies.	3			
SOCI 484	Emerging Democratic States.	3			
SOCI 495	Social Problems and Conflicts.	3			
SOCI 507	Social Change.	3			
SOCI 519	Gender and Globalization.	3			
SOCI 545	Sociology of Population.	3			
SOCI 550	Developing Societies.	3			
SOCI 595	Migration Governance and Stratification.	3			

Social Stratification: Class, Ethnicity, and Gender

Expand allContract all

Course	Title	Credits	
SOCI 227	Jews in North America.	3	Students may register for Joint Honours at the beginning of their second year (U2).
SOCI 230	Sociology of Ethnic Relations.	3	Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).
SOCI 255	Gender and the State.	3	Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.
SOCI 270	Sociology of Gender.	3	
SOCI 300	Sociology of Sexualities	3	
SOCI 321	Gender and Work.	3	
SOCI 333	Social Stratification.	3	
SOCI 335	Sociology of Aging and the Life Course.	3	
SOCI 355	Rural Life in a Global Society.	3	
SOCI 366	Neighborhoods and Inequality .	3	
SOCI 375	Suspect Minorities in Canada.	3	We recommend that students consult an Arts OASIS advisor for degree planning.
SOCI 410	Urban Ethnography.	3	
SOCI 415	Education and Inequality.	3	
SOCI 430	Sociology of Citizenship.	3	
SOCI 475	Canadian Ethnic Studies Seminar.	3	
SOCI 505	Sociology of Digital Intimacy	3	
SOCI 520	Migration and Immigrant Groups.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
SOCI 526	Indigenous Women's Health and Healthcare .	3	<ul style="list-style-type: none"> The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above). The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
SOCI 530	Sex and Gender.	3	
SOCI 595	Migration Governance and Stratification.	3	

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits	
SOCI 235	Technology and Society.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
SOCI 301	Artificial Intelligence and Society	3	
SOCI 304	Sociology of the Welfare State.	3	

Sociology Joint Honours Component (B.A. & Sc.) (36 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Bachelor of Arts; Bachelor of Arts and Science

Program credit weight: 36

Program Description

The Joint Honours Component Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of a Joint Honours program is an asset when applying to graduate or profession schools.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 Statistics in Social Research must replace it with another 300-level or higher sociology course.

Expand all Contract all

Course	Title	Credits
SOCI 210	Sociological Perspectives.	3
SOCI 211	Sociological Inquiry.	3
SOCI 330	Sociological Theory.	3
SOCI 350	Statistics in Social Research.	3
SOCI 461	Quantitative Data Analysis.	3
SOCI 480	Honours Project.	3

Complementary Courses (18 credits)

18 credits of complementary sociology (SOCI) courses approved by the Departmental Honours Adviser.

500-Level Seminars:

Seminars at the 500 level are open to Honours/Joint Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

- Institutions, Deviance, and Culture
- Politics and Social Change
- Social Stratification: Class, Ethnicity, and Gender
- Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours/Joint Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

Expand all Contract all

Course	Title	Credits
SOCI 213	Deviance.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 247	Family and Modern Society.	3
SOCI 250	Social Problems.	3
SOCI 305	Socialization.	3
SOCI 309	Health and Illness.	3
SOCI 310	Sociology of Mental Health.	3
SOCI 318	Sociology of the Media.	3
SOCI 322	Sociology of Literature.	3
SOCI 325	Sociology of Science.	3

SOCI 388	Crime.	3
SOCI 488	Punishment and Prisons.	3
SOCI 489	Gender, Deviance and Social Control.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 503	Surveillance in Modern Society.	3
SOCI 515	Medicine and Society.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 571	Deviance and Social Control.	3
SOCI 595	Migration Governance and Stratification.	3

Politics and Social Change

Expand all Contract all

Course	Title	Credits
SOCI 212	International Migration.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 245	The Sociology of Emotions.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 255	Gender and the State.	3
SOCI 307	Globalization.	3
SOCI 326	Political Sociology 01.	3
SOCI 345	Topics in Sociology.	3
SOCI 354	Dynamics of Industrial Societies.	3
SOCI 365	Health and Development.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 386	Contemporary Social Movements.	3
SOCI 400	Comparative Migration and Citizenship.	3
SOCI 424	Networks and Social Structures.	3
SOCI 446	Colonialism and Society.	3
SOCI 455	Post-Socialist Societies.	3
SOCI 484	Emerging Democratic States.	3
SOCI 495	Social Problems and Conflicts.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 595	Migration Governance and Stratification.	3

Social Stratification: Class, Ethnicity, and Gender

Expand all Contract all

Course	Title	Credits
SOCI 227	Jews in North America.	3
SOCI 230	Sociology of Ethnic Relations.	3
SOCI 255	Gender and the State.	3

SOCI 270	Sociology of Gender.	3	3. Ethics, Equity, and Justice, to discuss why we need change, and the issues of equity and justice associated with taking action.
SOCI 300	Sociology of Sexualities	3	
SOCI 321	Gender and Work.	3	This program is a partnership between Geography and the Bieler School of Environment and will be administered through Geography.
SOCI 333	Social Stratification.	3	
SOCI 335	Sociology of Aging and the Life Course.	3	The Honours program allows students to pursue a research project with the supervision of a McGill University faculty member, leading to an honours thesis. Applicants must have a minimum program GPA (GPA of all required and complementary courses taken at McGill) of 3.3 to enter the Honours program. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 Honours Research./ENVR 495D2 Honours Research.6 credits). Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours. Honours students need to identify a supervisor, an honours project, and register in ENVR 495D1 Honours Research./ENVR 495D2 Honours Research.. Honours students are encouraged to participate in 500-level seminars with graduate students.
SOCI 355	Rural Life in a Global Society.	3	
SOCI 366	Neighborhoods and Inequality .	3	
SOCI 375	Suspect Minorities in Canada.	3	
SOCI 415	Education and Inequality.	3	
SOCI 475	Canadian Ethnic Studies Seminar.	3	
SOCI 505	Sociology of Digital Intimacy	3	
SOCI 520	Migration and Immigrant Groups.	3	
SOCI 526	Indigenous Women's Health and Healthcare .	3	
SOCI 530	Sex and Gender.	3	
SOCI 595	Migration Governance and Stratification.	3	

Work, Organizations, and the Economy

Expand allContract all

Course	Title	Credits	
SOCI 235	Technology and Society.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
SOCI 301	Artificial Intelligence and Society	3	<ul style="list-style-type: none"> The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above). The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
SOCI 304	Sociology of the Welfare State.	3	
SOCI 312	Sociology of Work and Industry.	3	
SOCI 325	Sociology of Science.	3	
SOCI 420	Organizations.	3	
SOCI 470	Topics in Economic Sociology.	3	

Sustainability, Science and Society Honours (B.A. & Sc.) (60 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 60

Program Description

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions—scientific-technological, socio-economic, political-institutional, ethical, and human behavioural—and to chart a transition to sustainability. It is built upon three pillars:

1. Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions;
2. Economics, Policy, and Governance, to understand how we can make the sustainability transition; and

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
 - The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
- Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (33 credits)

33 credits selected as follows:

Foundations of Sustainability

Expand allContract all

Course	Title	Credits
ENVR 201	Society, Environment and Sustainability.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 460	Research in Sustainability.	3

Honours Required Courses

Note: Students either take ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research.	3
ENVR 495D2	Honours Research.	3

ENVR 495N1	Honours Research.	3	18 additional credits of complementary courses chosen from three areas listed below. At least 9 credits must be at the 300 level or higher; students must choose at least 6 credits from each area (1, 2, and 3).
ENVR 495N2	Honours Research.	3	

Biophysical, Societal, Cultural, Institutional, and Ethical

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
GEOG 203	Environmental Systems.	3
GEOG 408	Geography of Development.	3

Complementary Courses (27 credits)

Statistics

3 credits of Statistics from the following:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Economics

3 credits from the following:

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 225	Economics of the Environment.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3

Sustainability in Business

3 credits of Management from the following:

Expand allContract all

Course	Title	Credits
INSY 455	Technology and Innovation for Sustainability.	3
MGCR 460	Social Context of Business.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 475	Strategies for Developing Countries.	3

Area 1: Methods: Observation, Analysis, Modelling, and Management

Expand allContract all

Course	Title	Credits
ENVB 437	Assessing Environmental Impact.	3
ENVB 529	GIS for Natural Resource Management. ¹	3
ESYS 301	Earth System Modelling.	3
ESYS 500	Collaborative Research Project.	3
GEOG 201	Introductory Geo-Information Science. ¹	3
GEOG 302	Environmental Management 1.	3
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 351	Quantitative Methods.	3

Course	Title	Credits
GEOG 404	Environmental Management 2.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 495	Field Studies - Physical Geography.	3
GEOG 509	Qualitative Methods.	3
URBP 506	Environmental Policy and Planning.	3

¹ Students may select either GEOG 201 Introductory Geo-Information Science. or ENVB 529 GIS for Natural Resource Management., but not both.

Area 2: Society, Economics, Policy, Ethics, and Equity

2A: Society, Economics, and Policy

3 credits from the following:

Course	Title	Credits
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3

GEOG 303	Health Geography.	3	GEOG 530	Global Land and Water Resources.	3
GEOG 310	Development and Livelihoods.	3	GEOG 555	Ecological Restoration.	3
GEOG 316	Political Geography.	3	NRSC 333	Pollution and Bioremediation.	3
GEOG 409	Geographies of Developing Asia.	3			
HIST 292	History and the Environment.	3			
INDG 200	Introduction to Indigenous Studies.	3			
POLI 350	Global Environmental Politics.	3			
URBP 530	Urban Infrastructure and Services in International Context .	3			
URBP 553	Urban Governance.	3			

2B: Ethics and Equity

3 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 400	Environmental Thought.	3
MGPO 450	Ethics in Management.	3
PHIL 349	Environmental Philosophy.	3
RELG 270	Religious Ethics and the Environment.	3
SOCI 325	Sociology of Science.	3

Area 3: Sustainability and Biophysical Processes

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
BIOL 308	Ecological Dynamics.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 465	Conservation Biology.	3
BIOL 540	Ecology of Species Invasions. ¹	3
BREE 217	Hydrology and Water Resources. ²	3
CHEM 462	Green Chemistry.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology.	3
ENVR 540	Ecology of Species Invasions. ¹	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
GEOG 221	Environment and Health.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology. ²	3
GEOG 372	Running Water Environments.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 438	Sand in the Anthropocene	3
GEOG 470	Wetlands.	3

Sustainability, Science and Society Interfaculty Program (B.A. & Sc.) (54 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Arts and Science

Program credit weight: 54

Program Description

The B.A. & Sc. Interfaculty Program in Sustainability, Science and Society focuses on the interdisciplinary and integrative knowledge and skills required to effectively understand and address challenges in transitioning to a sustainable future. Challenges are often defined by multiple dimensions, including scientific-technological, socio-economic, political-institutional, ethical, and human behavioural. The program is built on three pillars:

1. science and technology - to provide an in-depth understanding of the biophysical basis for current issues and challenges;
2. economics, policy, and governance - to understand how we can make the sustainability transition;
3. ethics, equity, and justice - to discuss why we need change, and the issues of equity and justice associated with taking action.

This program is offered in collaboration with the Bieler School of Environment.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (27 credits)

27 credits selected as follows:

Foundations of Sustainability

Expand allContract all

Course	Title	Credits			
ENVR 201	Society, Environment and Sustainability.	3	MGPO 440	Strategies for Sustainability.	3
GEOG 360	Analyzing Sustainability.	3	MGPO 475	Strategies for Developing Countries.	3
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3	18 additional credits chosen from three areas listed below, of which at least 9 credits must be at the 300 level or higher, students must choose at least 6 credits from each area (1, 2, and 3)		
GEOG 460	Research in Sustainability.	3			

Biophysical, Societal, Cultural, Institutional, and Ethical

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
GEOG 203	Environmental Systems.	3
GEOG 408	Geography of Development.	3

Complementary Courses (27 credits)

Statistics

3 credits of Statistics from the following:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Economics

3 credits of Economics from the following:

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 201	Principles of Macroeconomics.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 225	Economics of the Environment.	3
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3

Sustainability in Business

3 credits of Management from the following:

Expand allContract all

Course	Title	Credits
INSY 455	Technology and Innovation for Sustainability.	3
MGCR 460	Social Context of Business.	3

Area 1: Methods: Observation, Analysis, Modelling, and Management

Expand allContract all

Course	Title	Credits
ENVB 437	Assessing Environmental Impact.	3
ENVB 529	GIS for Natural Resource Management. ¹	3
ESYS 301	Earth System Modelling.	3
ESYS 500	Collaborative Research Project.	3
GEOG 201	Introductory Geo-Information Science.	3
GEOG 302	Environmental Management 1.	3
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3
GEOG 351	Quantitative Methods.	3
GEOG 404	Environmental Management 2.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 495	Field Studies - Physical Geography.	3
GEOG 509	Qualitative Methods.	3
GEOG 512	Advanced Quantitative Methods in Social Field Research.	3
URBP 506	Environmental Policy and Planning.	3

¹ Students may select either GEOG 201 Introductory Geo-Information Science. or ENVB 529 GIS for Natural Resource Management., but not both.

Area 2: Society, Economics, Policy, Ethics, and Equity

2A: Society, Economics, and Policy

3 credits from the following:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ECON 326	Ecological Economics.	3

ECON 347	Economics of Climate Change.	3	GEOG 372	Running Water Environments.	3
ECON 405	Natural Resource Economics.	3	GEOG 403	Global Health and Environmental Change.	3
GEOG 210	Global Places and Peoples.	3	GEOG 438	Sand in the Anthropocene	3
GEOG 216	Geography of the World Economy.	3	GEOG 470	Wetlands.	3
GEOG 303	Health Geography.	3	GEOG 530	Global Land and Water Resources.	3
GEOG 310	Development and Livelihoods.	3	GEOG 555	Ecological Restoration.	3
GEOG 316	Political Geography.	3	NRSC 333	Pollution and Bioremediation.	3
GEOG 409	Geographies of Developing Asia.	3			
HIST 292	History and the Environment.	3			
INDG 200	Introduction to Indigenous Studies.	3			
POLI 350	Global Environmental Politics.	3			
URBP 530	Urban Infrastructure and Services in International Context .	3			
URBP 553	Urban Governance.	3			

2B: Ethics and Equity

3 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 400	Environmental Thought.	3
MGPO 450	Ethics in Management.	3
PHIL 349	Environmental Philosophy.	3
RELG 270	Religious Ethics and the Environment.	3
SOCI 325	Sociology of Science.	3

Area 3: Sustainability and Biophysical Processes

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
BIOL 308	Ecological Dynamics.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 465	Conservation Biology.	3
BIOL 540	Ecology of Species Invasions. ¹	3
BREE 217	Hydrology and Water Resources. ²	3
CHEM 462	Green Chemistry.	3
ENVB 305	Population and Community Ecology.	3
ENVB 410	Ecosystem Ecology. ¹	3
ENVR 540	Ecology of Species Invasions. ¹	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
GEOG 221	Environment and Health.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments. ²	3
GEOG 322	Environmental Hydrology. ²	3

Dentistry (Four-Year Program) (D.M.D.) (221 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: DMD

Program credit weight: 221

Program Description

The D.M.D. program focuses on simulation training and introduction to the clinical environment, which includes clinical training in the undergraduate teaching clinic. The Fundamentals of Medicine and Dentistry are taught in conjunction with the Faculty of Medicine and Health Sciences. The program includes rotations through various hospital departments, including Oral and Maxillofacial Surgery (at the Montreal General Hospital), Pediatric Dentistry (at the Montreal Children's Hospital), the Jim Lund Dental Clinic (at the Welcome Hall Mission in St. Henri), and the Alan Edwards Pain Management Unit (at the Montreal General Hospital).

Required Courses (221 credits)

Year 1 Fundamentals of Dentistry (FMD)

Expand allContract all

Course	Title	Credits
DENT 111J1	Introduction to Dentistry.	2
DENT 111J2	Introduction to Dentistry.	2
DENT 111J3	Introduction to Dentistry.	2
DENT 112	Oral Medicine and Manifestation of Systemic Diseases.	4
DENT 113D1	Community Oral Health Services 1.	.5
DENT 113D2	Community Oral Health Services 1.	.5
DENT 114D1	Head and Neck Anatomy and Histology.	3
DENT 114D2	Head and Neck Anatomy and Histology.	3
DENT 125D1	Oral Health Research 1.	.5
DENT 125D2	Oral Health Research 1.	.5
INDS 111	Molecules to Global Health.	6
INDS 112	Respiration.	6

INDS 113	Circulation.	8	DENT 311J1	Endodontics 1.	1.83
INDS 114	Digestion and Metabolism.	8	DENT 311J2	Endodontics 1.	1.83
INDS 115	Renal.	6	DENT 311J3	Endodontics 1.	1.84
INDS 116	Defense.	6	DENT 313D1	Community Oral Health Services 3.	1.5
INDS 117	Infection.	6	DENT 313D2	Community Oral Health Services 3.	1.5
IPEA 500	Roles in Interprofessional Teams.	0	DENT 315J1	Orthodontics 1.	2
IPEA 501	Communication in Interprofessional Teams.	0	DENT 315J2	Orthodontics 1.	2
			DENT 315J3	Orthodontics 1.	2
			DENT 317D1	Oral Pathology and Medicine.	1.5
			DENT 317D2	Oral Pathology and Medicine.	1.5

Year 2 DMD

Expand allContract all

Course	Title	Credits			
DENT 213D1	Community Oral Health Services 2.	.5	DENT 318J1	Periodontology.	1.33
DENT 213D2	Community Oral Health Services 2.	.5	DENT 318J2	Periodontology.	1.33
DENT 222D1	Radiology.	1.5	DENT 318J3	Periodontology.	1.34
DENT 222D2	Radiology.	1.5	DENT 319D1	Dental Pharmacology.	1.5
DENT 225D1	Oral Health Research 2.	1	DENT 319D2	Dental Pharmacology.	1.5
DENT 225D2	Oral Health Research 2.	1	DENT 320J1	Restorative Dentistry.	2
DENT 231	Professional Identity Development.	2	DENT 320J2	Restorative Dentistry.	2
DENT 232	Dental Public Health A.	3	DENT 320J3	Restorative Dentistry.	2
DENT 240	Dental Anatomy and Occlusion .	3	DENT 322J1	Image Interpretation.	0.67
DENT 241	Cariology.	3	DENT 322J2	Image Interpretation.	0.67
DENT 242J1	Restorative Dentistry (Operative)	2	DENT 322J3	Image Interpretation.	0.66
DENT 242J2	Restorative Dentistry (Operative)	2	DENT 323J1	Oral and Maxillofacial Surgery.	0.7
DENT 242J3	Restorative Dentistry (Operative)	2	DENT 323J2	Oral and Maxillofacial Surgery.	0.7
DENT 243	Endodontics A.	4	DENT 323J3	Oral and Maxillofacial Surgery.	0.6
DENT 244D1	Pediatric Dentistry A.	2	DENT 325D1	Oral Health Research 3.	1
DENT 244D2	Pediatric Dentistry A.	2	DENT 325D2	Oral Health Research 3.	1
DENT 245D1	Restorative Dentistry (Fixed Prosthodontics)	2	DENT 327	Clinical Decision Making A.	3
DENT 245D2	Restorative Dentistry (Fixed Prosthodontics)	2	DENT 328J1	Gerodontology.	1
DENT 246D1	Management of Partial Edentulism	1.5	DENT 328J2	Gerodontology.	1
DENT 246D2	Management of Partial Edentulism	1.5	DENT 328J3	Gerodontology	1
DENT 247D1	Management of Complete Edentulism.	1.5	DENT 338D1	Orofacial Pain and Sleep Apnea.	1.5
DENT 247D2	Management of Complete Edentulism.	1.5	DENT 338D2	Orofacial Pain and Sleep Apnea.	1.5
DENT 248	Periodontics	3	DENT 343J1	Endodontics B	1
DENT 249D1	Introduction to Development and Orthodontics.	2	DENT 343J2	Endodontics B	1
DENT 249D2	Introduction to Development and Orthodontics .	2	DENT 343J3	Endodontics B	1
DENT 250D1	Introduction to Clinical Care.	3	DENT 344J1	Pediatric Dentistry B	1
DENT 250D2	Introduction to Clinical Care	3	DENT 344J2	Pediatric Dentistry B	1
			DENT 344J3	Pediatric Dentistry B	1
			DENT 346D1	Patient Centred Care and Social Dentistry.	1.5
			DENT 346D2	Patient Centred Care and Social Dentistry.	1.5

Year 3 DMD

Expand allContract all

Course	Title	Credits			
DENT 307D1	Business Aspects of Dentistry.	1	DENT 350J1	Clinical Practice 1	2.33
DENT 307D2	Business Aspects of Dentistry.	1	DENT 350J2	Clinical Practice 1	2.33
DENT 309J1	Implantology.	1.67	DENT 350J3	Clinical Practice 1	2.33
DENT 309J2	Implantology.	1.67	DENT 351	Summer Clinic.	4
DENT 309J3	Implantology.	1.66			

Year 4 DMD

Expand allContract all

Course	Title	Credits
DENT 407D1	Practice Management.	1
DENT 407D2	Practice Management.	1
DENT 413	Community Oral Health Services 4.	1
DENT 415D1	Orthodontics 2.	3.5
DENT 415D2	Orthodontics 2.	3.5
DENT 418D1	Periodontology Seminar.	1
DENT 418D2	Periodontology Seminar.	1
DENT 420	Restorative Dentistry Seminars.	3
DENT 423D1	Oral Maxillofacial Surgery and Pathology.	2
DENT 423D2	Oral Maxillofacial Surgery and Pathology.	2
DENT 437	Clinical Decision Making.	3
DENT 438D1	Management of Orofacial Pain.	1.5
DENT 438D2	Management of Orofacial Pain.	1.5
DENT 443D1	Endodontics C.	0.5
DENT 443D2	Endodontics C.	0.5
DENT 444D1	Pediatric Dentistry C.	0.5
DENT 444D2	Pediatric Dentistry C.	0.5
DENT 446D1	Ethics and Jurisprudence A.	0.5
DENT 446D2	Ethics and Jurisprudence A.	0.5
DENT 450D1	Clinical Practice 2.	3.5
DENT 450D2	Clinical Practice 2.	3.5
DENT 451D1	Focused Clinical Training .	0.5
DENT 451D2	Focused Clinical Training .	0.5

Dental Preparatory (Dent-P) (B.Sc.) (30 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 30

Program Description

The five-year program consists of a Dental Preparatory (Dent-P) year followed by the regular four-year dental program. During the Dent-P year, students are registered in the Faculty of Science and must take courses totalling 30 credits. There are several required courses as well as a number of elective courses selected for the purpose of broadening and enriching their education.

Required Courses in Sciences (18 credits)

Elective Courses in Humanities (12 credits)

A student accepted to the Dent-P program will be required to register for a full year in the Faculty of Science. In that year, the student must take courses totalling 30 credits. Following the successful completion of this year, determined by a Student Promotion Committee, students will proceed into the first year of the four-year program. Students must obtain a minimum cumulative GPA of 3.5 with all individual grades "B" or higher for required courses and passing grades for all

complementary courses to be promoted into the first year of the D.M.D. program.

Note: Students failing to meet these requirements will be able to transfer into a B.Sc. and may reapply to the D.M.D. program following completion of the undergraduate degree. Please note that a grade of B in all courses would lead to a GPA of 3.0 and that a grade of B in required courses and grades below B in complementary courses would lead to a GPA below 3.0.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

General Practice Residency Program (Dentistry) (Cert.) (52 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: GC-GPR

Program credit weight: 52

Program Description

The General Practice Residency (GPR) program offers advanced postgraduate training in all aspects of general practice dentistry. Residents are exposed to a wide variety of dental and related medical specialties. The program also includes practical training in oral conscious sedation and certification in Basic Life Support (BLS) and in Advanced Cardiac Life Support (ACLS).

Selection of residents is based on academic standing and personal interviews. Applicants must be graduates of an accredited Canadian or U.S. dental school and be eligible for licensure in Quebec.

Candidates who have not graduated from high school in the province of Quebec must have successfully fulfilled the French language requirements of the Office québécois de la langue française before applying. For more information, please consult the following website: www.mcgill.ca/dentistry/general-residency-program.

Required Courses

Expand allContract all

Course	Title	Credits
DENT 575	Dental Residency Training 1.	18
DENT 576	Dental Residency Training 2.	17

DENT 577	Dental Residency Training 3.	17	The candidate must have completed a year of internship or a general practice residency or equivalent prior to commencing the program. The candidate has to be certified in ACLS (Advanced Cardiac Life Support) prior to starting the program.
DENT 578	Community Practice Rotations.	0	

Oral Surgery Internship (Cert.) (52 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: C-OSI

Program credit weight: 52

Program Description

The Oral Surgery Internship is a one-year certificate program to prepare students for admission to an Oral and Maxillofacial Surgery (OMFS) residency. Interns assist residents in providing patient care. The curriculum consists of lectures, seminars, journal clubs, and clinical activities.

One to two positions are available for Canadian citizens or permanent residents who have graduated from an accredited North American dental school, or are graduates of programs that have a contractual sponsorship agreement through the Faculty of Dental Medicine and Oral Health Sciences, McGill University.

For more information, consult <https://www.mcgill.ca/omfs/academic-programs/1-year-certificate-oral-surgery/>....

Oral and Maxillofacial Surgery (4-year program) (Cert.) (144 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: C-OMS

Program credit weight: 144

Program Description

McGill University, through the Faculty of Dental Medicine and Oral Health Sciences and the McGill University Health Centre, offers an advanced education program in Oral and Maxillofacial Surgery. The program is fully accredited by the Canadian Dental Association Accreditation Committee. It is a four-year program and commences on July 1 of each year. This program is only offered to candidates who are graduates of programs that have a contractual sponsorship agreement through the Faculty of Dental Medicine and Oral Health Sciences, McGill University and is not open to all candidates.

It is the intent of the program to develop both well-trained, practising oral and maxillofacial surgeons and surgeons who pursue academic careers and research. Therefore, an optional additional year is offered to residents who wish to complete the requirements for a Master of Science (M.Sc.) degree.

Candidates for this program must possess a D.D.S. or D.M.D. degree or the equivalent and be eligible to obtain a limited dental license from the Ordre des dentistes du Québec. (A limited license can be issued by the Ordre des dentistes du Québec without prior testing of French language competency.)

Required Courses

Expand allContract all

Course	Title	Credits
DENT 581J1	Oral and Maxillofacial Surgery Training 1.	12
DENT 581J2	Oral and Maxillofacial Surgery Training 1.	12
DENT 581J3	Oral and Maxillofacial Surgery Training 1.	12
DENT 582J1	Oral and Maxillofacial Surgery Training 2.	12
DENT 582J2	Oral and Maxillofacial Surgery Training 2.	12
DENT 582J3	Oral and Maxillofacial Surgery Training 2.	12
DENT 583J1	Oral and Maxillofacial Surgery Training 3.	12
DENT 583J2	Oral and Maxillofacial Surgery Training 3.	12
DENT 583J3	Oral and Maxillofacial Surgery Training 3.	12
DENT 584J1	Oral and Maxillofacial Surgery Training 4.	8
DENT 584J2	Oral and Maxillofacial Surgery Training 4.	8
DENT 584J3	Oral and Maxillofacial Surgery Training 4.	8
DENT 585J1	Oral and Maxillofacial Surgery Clinical and Seminars.	4
DENT 585J2	Oral and Maxillofacial Surgery Clinical and Seminars.	4
DENT 585J3	Oral and Maxillofacial Surgery Clinical and Seminars.	4

Oral and Maxillofacial Surgery (Integrated O.M.F.S. & M.D.,C.M.) (Cert.)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: C-OMS

Program Description

McGill University, through the Faculty of Dental Medicine and Oral Health Sciences, Faculty of Medicine and Health Sciences, and the McGill University Health Centre, offers an advanced education program in Oral and Maxillofacial Surgery. The program is fully accredited by the Canadian Dental Association Accreditation Committee. It is a six-year program and commences on July 1 of each year.

It is the intent of the program to develop both well-trained, practising oral and maxillofacial surgeons, and surgeons who pursue academic careers and research. All residents will also complete an M.D.,C.M. degree through the McGill School of Medicine. For the full M.D.,C.M. curriculum please refer to www.mcgill.ca/study/faculties/medicine/undergraduate/programs/mdcm-doctoral-program...

Currently the six-year M.D.,C.M. & OMFS program is only open to dentists who are Canadian citizens or permanent residents of Canada, and have graduated from an accredited North American dental school. Candidates for this program must possess a D.D.S. or D.M.D. degree

or the equivalent and be eligible to obtain a limited dental license from the Ordre des dentistes du Québec. (A limited license can be issued by the Ordre des dentistes du Québec without prior testing of French language competency.)

Human Relationships, Diversity and Sexuality (Dip.) (30 credits)

Offered by: Educational and Counselling Psych (Faculty of Education)

Program credit weight: 30 credits

Program Description

The Diploma in Human Relationships, Diversity and Sexuality focuses on the complexity of relationships in a digital and global world. Taking an intersectional approach with an orientation toward social justice, topics include sexuality, culture, ability, media literacy, communication, advocacy, and leadership.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 507	Advocacy, Outreach and Leadership.	3
EDPC 540	Social Responsibility and Relationships in Digital Age.	3
EDPE 515	Gender Identity Development.	3

Complementary Courses (9 credits)

Expand allContract all

Course	Title	Credits
EDPC 505	Crisis Intervention Processes.	3
EDPC 509	Individual Reading Course.	3
EDPC 511	End of Life Care.	3
EDPE 502	Theories of Human Development.	3
EDPE 595	Seminar in Special Topics 1.	3
EDPE 596	Seminar in Special Topics 2.	3
EDPI 543	Family, School and Community.	3

In addition to the above, other complementary courses may be approved by the Program Director.

Kindergarten and Elementary Education (B.Ed.) (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Requirements

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120-credit program) for a total of 150 credits.

The Kindergarten and Elementary Education program leads to certification to teach children between the ages of 5 and 11 years (kindergarten and elementary school). The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of the program provides a school-based practicum.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification."

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in the subjects taught in elementary school, as well as to explore areas that are not normally taken as "teachable" subject area courses within B.Ed. programs (e.g. Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology) and appropriate Music courses offered by the Schulich School of Music. For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by "clicking on" the course CRN for registration. Check prerequisites before registering.

Expand allContract all

Course	Title	Credits
EDEE 325	Children's Literature.	3
EDEM 220	Contemporary Issues in Education.	3
EDES 366	Literature for Young Adults.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3

Course	Title	Credits	Course	Title	Credits
MATH 111	Mathematics for Education Students.	3	Expand all	Contract all	
RELG 207	Introduction to the Study of Religions.	3	EDEC 248	Equity and Education.	3
WCOM 250	Research Essay and Rhetoric.	3	EDEC 249	Global Education and Social Justice.	3

Required Courses (84 credits)

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1	EDER 309	The Search for World Views.	3
EDEC 203	Communication in Education.	3	EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3
EDEC 215	English Exam for Teacher Certification.	0	QCST 200	Introduction to the Study of Quebec.	0-3
EDEC 233	Indigenous Education.	3	QCST 300	Quebec Culture and Society.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3	QCST 440	Contemporary Issues in Quebec.	3
EDEC 253	Second Professional Seminar (Kindergarten/Elementary).	1			
EDEC 260	Philosophical Foundations.	3			
EDEC 262	Media, Technology and Education.	3			
EDEC 405	Fourth Year Professional Seminar (K/Elem).	3			
EDEE 223	Language Arts.	3			
EDEE 230	Elementary School Mathematics 1.	3			
EDEE 253	Kindergarten Classroom Pedagogy.	3			
EDEE 260	Reading Methods - Kindergarten/Elementary.	3			
EDEE 270	Elementary School Science.	3			
EDEE 273	Elementary School Science 2.	3			
EDEE 280	Geography, History and Citizenship Education.	3			
EDEE 283	Social Studies Pedagogy.	3			
EDEE 332	Teaching Elementary Mathematics 2.	3			
EDEE 353	Third Year Professional Seminar (Kindergarten/Elementary).	3			
EDEE 355	Classroom-based Evaluation.	3			
EDER 360	Culture and Citizenship in Quebec Context (K/Elem).	2			
EDFE 200	First Field Experience (K/Elem and Secondary).	2			
EDFE 256	Second Field Experience (Kindergarten/Elementary).	3			
EDFE 306	Third Field Experience (Kindergarten/Elementary).	8			
EDFE 406	Fourth Field Experience (K/Elem).	7			
EDPE 300	Educational Psychology.	3			
EDPI 309	Diverse Learners.	3			
EDPI 341	Instruction in Inclusive Schools.	3			

Complementary Courses (12 credits)

12 credits of courses selected as described below:

Equity Education

3 credits from:

Culture and Citizenship in Quebec

3 credits from:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
EDER 309	The Search for World Views.	3			
EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3			
QCST 200	Introduction to the Study of Quebec.	0-3			
QCST 300	Quebec Culture and Society.	3			
QCST 440	Contemporary Issues in Quebec.	3			

Kindergarten and Elementary Teaching Methods - Art, Drama, Music, or Sexualities Education

3-6 credits from:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
EDEA 332	Art Curriculum and Instruction - Elementary.	3			
EDEA 342	Curriculum and Instruction in Drama Education.	3			
EDEA 345	Music Curriculum and Instruction for Generalists.	3			
EDER 530	Methods in Comprehensive Sexualities Education.	3			

Kindergarten and Elementary Teaching Methods - Physical Education or English Second Language

0-3 credits from:

Students may select both their Methods courses from the list above for Art, Drama, or Music.		
Expand all		
Course	Title	Credits
EDKP 332	Physical Education Curriculum and Instruction. ¹	3
EDSL 447	Methods in TESL 1.	3

¹ Note: EDSL 447 Methods in TESL 1. has EDSL 350 Essentials of English Grammar. as a prerequisite.

Kindergarten and Elementary Education - Subject Areas (18 credits)

18 credits selected in consultation with the Program Adviser as follows:

9 credits in "teachable" subject area courses of the elementary school curriculum from the lists below for Art, English, Culture and Citizenship

in Quebec, French, Mathematics, Music, Natural Sciences, Physical Education, and Social Studies.

And

9 credits, 3 credits from each of any three subject areas not chosen above.

No more than 9 credits may be selected from any single subject area list.

Note: In all subject areas, other relevant courses can be chosen with adviser's permission.

Art

Students may select up to 9 credits from this list and from Art History (ARTH) courses.

Expand allContract all

Course	Title	Credits
EDEA 204	Drawing.	3
EDEA 205	Painting 2.	3
EDEA 241	Basic Art Media for Classroom.	3
EDEA 296	Basic Design.	3
EDEA 304	Painting 3.	3
EDEA 307	Drawing 2.	3
EDEA 410	Aesthetics and Art for the Classroom.	3
EDEA 496	Sculpture 1.	3

English

Students may select up to 9 credits from this list.

Expand allContract all

Course	Title	Credits
CLAS 203	Greek Mythology.	3
COMS 200	History of Communication.	3
COMS 210	Introduction to Communication Studies.	3
COMS 300	Media and Modernity in the 20th Century.	3
COMS 310	Media and Feminist Studies.	3
COMS 320	Media and Empire.	3
COMS 330	Media in Cultural Life.	3
EDEE 325	Children's Literature.	3
EDES 366	Literature for Young Adults.	3
EDSL 350	Essentials of English Grammar.	3
ENGL 200	Survey of English Literature 1.	3
ENGL 201	Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 225	American Literature 1.	3
ENGL 226	American Literature 2.	3
ENGL 227	American Literature 3.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
ENGL 230	Introduction to Theatre Studies.	3

ENGL 237	Introduction to Study of a Literary Form.	3
ENGL 279	Introduction to Film History.	3
ENGL 280	Introduction to Film as Mass Medium.	3
ENGL 314	20th Century Drama.	3
ENGL 345	Literature and Society.	3
ENGL 347	Great Writings of Europe 1.	3
ENGL 349	English Literature and Folklore 1.	3
ENGL 388	Studies in Popular Culture.	3
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 211	Introduction to Indigenous Languages.	3
LING 260	Meaning in Language.	3

Culture and Citizenship in Quebec

Students may select up to 9 credits from this list. Students may also choose other Religious Studies (RELG) courses with the permission of the Program Adviser.

Culture

Expand allContract all

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
CANS 415	Black Canada.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3

Citizenship

Expand allContract all

Course	Title	Credits
EDEC 374	Education and the Environment.	3
EDER 252	Understanding and Teaching Jewish Life.	3
EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
JWST 211	Jewish Studies 1: Biblical Period. 1	3
JWST 240	The Holocaust.	3
JWST 382	Jews, Judaism and Social Justice.	3
RELG 203	Bible and Western Culture.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 207	Introduction to the Study of Religions.	3
RELG 252	Hinduism and Buddhism.	3
RELG 253	Religions of East Asia.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 271	Religion and Sexuality.	3
RELG 309	World Religions and Cultures They Create..	3
RELG 341	Introduction: Philosophy of Religion.	3

Note: ENVR courses have limited enrolment.

Ethics and Philosophy

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDER 395	Moral Values and Human Action.	3	ATOC 181	Introduction to Atmospheric Science.	3
EDER 461	Society and Change.	3	ATOC 182	Introduction to Oceanic Sciences.	3
EDER 494	Human Rights and Ethics in Practice.	3	ATOC 184	Science of Storms.	3
GSFS 200	Feminist and Social Justice Studies.	3	ATOC 185	Natural Disasters.	3
PHIL 200	Introduction to Philosophy 1.	3	BIOL 115	Essential Biology.	3
PHIL 230	Introduction to Moral Philosophy 1.	3	CHEM 180	World of Chemistry: Environment.	3
PHIL 237	Contemporary Moral Issues.	3	CHEM 181	World of Chemistry: Food.	3
			CHEM 183	World of Chemistry: Drugs.	3
			EDEC 374	Education and the Environment.	3
			EDEE 473	Ecological Studies.	3
			EPSC 181	Environmental Geology.	3
			EPSC 185	Natural Disasters.	3
			EPSC 201	Understanding Planet Earth.	3
			PHYS 181	Everyday Physics.	3
			PHYS 182	Our Evolving Universe.	3
			PHYS 183	The Milky Way Inside and Out.	3

French

Students may choose up to 9 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses and/or:

Expand allContract all

Course	Title	Credits
EDSL 341	Littératie et littérature jeunesse en FLS.	3

Mathematics

Students may choose up to 9 credits of Mathematics (MATH) courses at the 200 level or higher.

Note: Students admitted with CEGEP mathematics (or equivalent) may not take MATH 111 Mathematics for Education Students. for credit. MATH 111 Mathematics for Education Students. is a recommended course for Foundation students.

Expand allContract all

Course	Title	Credits
MATH 111	Mathematics for Education Students.	3

Music

Students may choose up to 9 credits from this list. Students may also select any Music course with the MUGT, MUHL, MUIT, or MUCT subject codes.

With the permission of the Program Adviser, students without a formal music background may choose a limited number of courses offered by the Schulich School of Music.

Expand allContract all

Course	Title	Credits
EDEA 341	Listening for Learning. ¹	3
MUJZ 160	Jazz Materials 1. ¹	3
MUJZ 161	Jazz Materials 2.	3

¹ Requires permission from the Schulich School of Music to register.

Natural Sciences

Students may choose up to 9 credits from this list.

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3
CANS 200	Understanding Canada.	3

Physical Education

Students may take up to 9 credits of Physical Education (EDKP) courses from the list with the permission of the Department of Kinesiology and Physical Education.

Expand allContract all

Course	Title	Credits
EDKP 204	Health Education.	3
EDKP 208	Biomechanics and Motor Learning.	3
EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness. ¹	3
EDKP 498	Sport Psychology.	3

¹ Note: EDKP 292 Nutrition and Wellness. is available as an academic Physical Education course. All other EDKP courses are restricted.

Social Studies

Students may take up to 9 credits from this list below which represents a balance of History (HIST), Geography (GEOG), and Citizenship courses offered by several departments. Anthropology (ANTH) and Sociology (SOCI) courses not on the list below may not be counted as Social Studies courses in the program requirements. Students may take them as electives only.

Students may select additional History courses as follows:

Any 3 credits in European History

Any 3 credits in Asian, African, or Latin American History

Any 3 credits in any topic or field of history

Expand allContract all

Course	Title	Credits
ANTH 202	Socio-Cultural Anthropology.	3

			Course	Title	Credits
CANS 310	Canadian Cultures: Context and Issues.	3	EDEC 201	First Year Professional Seminar.	1
GEOG 200	Geographical Perspectives: World Environmental Problems.	3	EDEC 203	Communication in Education.	3
GEOG 205	Global Change: Past, Present and Future.	3	EDEC 215	English Exam for Teacher Certification.	0
GEOG 210	Global Places and Peoples.	3	EDEC 216	Indigenous Language Requirement.	0
GEOG 217	Cities in the Modern World.	3	EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
GSFS 200	Feminist and Social Justice Studies. ¹	3	EDEC 253	Second Professional Seminar (Kindergarten/ Elementary).	1
HIST 202	Survey: Canada to 1867.	3	EDEC 262	Media, Technology and Education.	3
HIST 203	Survey: Canada since 1867.	3	EDEC 321	Visions and Realities of Indigenous Education.	3
JWST 240	The Holocaust.	3	EDEC 405	Fourth Year Professional Seminar (K/Elem).	3
POLI 221	Government of Canada.	3	EDEE 223	Language Arts.	3
POLI 222	Political Process and Behaviour in Canada.	3	EDEE 230	Elementary School Mathematics 1.	3

¹ May be used as Culture and Citizenship in Quebec or Social Studies courses but not both.

Elective Courses (6 credits)

6 credits at the undergraduate level.

Kindergarten and Elementary Education (B.Ed.) - First Nations and Inuit Studies (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Requirements

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies program requires 120 credits and leads to teacher certification. Interested applicants must contact the Office of First Nations and Inuit Education for admission information; please call 514-398-4527.

Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of foundation courses (in addition to the 120 credit program) for a total of 150 credits. Students who are admitted as "mature students" are not required to complete the 30 credits of Foundation courses. These students are admitted to U1.

Please note that graduates of teacher education programs are recommended by the University for Quebec Certification to the Quebec Ministère de l'Enseignement supérieur. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Required Courses (78 credits)

Expand allContract all

			Course	Title	Credits
			EDEC 200	Communication in Education.	3
			EDEC 210	English Exam for Teacher Certification.	0
			EDEC 211	Indigenous Language Requirement.	0
			EDEC 212	Policy Issues in Quebec and Indigenous Education.	3
			EDEC 213	Second Professional Seminar (Kindergarten/ Elementary).	1
			EDEC 214	Media, Technology and Education.	3
			EDEC 215	Visions and Realities of Indigenous Education.	3
			EDEC 216	Fourth Year Professional Seminar (K/Elem).	3
			EDEC 217	Language Arts.	3
			EDEC 218	Elementary School Mathematics 1.	3
			EDEC 219	Kindergarten Classroom Pedagogy.	3
			EDEC 220	Reading Methods - Kindergarten/Elementary.	3
			EDEC 221	Elementary School Science.	3
			EDEC 222	Geography, History and Citizenship Education.	3
			EDEC 223	Social Studies Pedagogy.	3
			EDEC 224	Teaching Elementary Mathematics 2.	3
			EDEC 225	Third Year Professional Seminar (Kindergarten/ Elementary).	3
			EDEC 226	Classroom-based Evaluation.	3
			EDEC 227	Culture and Citizenship in Quebec Context (K/ Elem).	2
			EDEC 228	First Field Experience (K/Elem and Secondary).	2
			EDEC 229	Second Field Experience (Kindergarten/ Elementary).	3
			EDEC 230	Third Field Experience (Kindergarten/ Elementary).	8
			EDEC 231	Fourth Field Experience (K/Elem).	7
			EDEC 232	Educational Psychology.	3
			EDEC 233	Diverse Learners.	3
			EDEC 234	Instruction in Inclusive Schools.	3

Complementary Courses (36 credits)

36 credits of courses selected as described below:

Language - Complementary Component

6 credits from the following language courses chosen according to language group and fluency:

Algonquin

Expand allContract all

Course	Title	Credits
EDEC 270	Algonquin Heritage Language 1.	3
EDEC 271	Algonquin Heritage Language 2.	3

EDEC 272	Algonquin Language 1.	3	Course	Title	Credits
EDEC 273	Algonquin Language 2.	3	EDEC 374	Education and the Environment.	3

Cree

Expand allContract all

Course	Title	Credits
EDEC 241	Cree Language 1.	3
EDEC 242	Cree Language 2.	3

Inuktitut

Expand allContract all

Course	Title	Credits
EDEC 289	Inuktitut Orthography and Grammar.	3
EDEC 403	The Dialects of Inuktitut.	3

Mi'gmaw

Expand allContract all

Course	Title	Credits
EDEC 237	Mi'gmaw Heritage Language 1.	3
EDEC 238	Mi'gmaw Heritage Language 2.	3
EDEC 239	Mi'gmaw Language 1.	3
EDEC 240	Mi'gmaw Language 2.	3

Mohawk

Expand allContract all

Course	Title	Credits
EDEC 275	Mohawk Heritage Language 1.	3
EDEC 276	Mohawk Heritage Language 2.	3
EDEC 277	Mohawk Language 1.	3
EDEC 278	Mohawk Language 2.	3

Naskapi

Expand allContract all

Course	Title	Credits
EDEC 227	Naskapi Language 1.	3
EDEC 228	Naskapi Language 2.	3

Education Component

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 233	Indigenous Education.	3
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3
EDEM 502	Indigenous Family Dynamics and Supporting Institutions.	3

Science Component

3 credits from:

Expand allContract all

Religion Component

3 credits from:

Course	Title	Credits
EDER 309	The Search for World Views.	3
EDER 395	Moral Values and Human Action.	3
EDER 461	Society and Change.	3
EDER 494	Human Rights and Ethics in Practice.	3

Kindergarten and Elementary Subject Area Component

9 credits from the subject course lists below:

Art

Expand allContract all

Course	Title	Credits
EDEA 204	Drawing.	3
EDEA 205	Painting 2.	3
EDEA 241	Basic Art Media for Classroom.	3
EDEA 242	Cultural Skills 1.	3
EDEA 243	Cultural Skills 2.	3
EDEA 296	Basic Design.	3
EDEA 304	Painting 3.	3
EDEA 307	Drawing 2.	3
EDEA 410	Aesthetics and Art for the Classroom.	3
EDEA 496	Sculpture 1.	3

English

Expand allContract all

Course	Title	Credits
EDEE 325	Children's Literature.	3
EDEE 371	Integrating Indigenous Storytelling and Creative Writing.	3
EDES 366	Literature for Young Adults.	3
EDSL 350	Essentials of English Grammar.	3

Ethics and Religious Culture

Expand allContract all

Course	Title	Credits
EDER 252	Understanding and Teaching Jewish Life.	3
EDER 309	The Search for World Views.	3
EDER 395	Moral Values and Human Action.	3
EDER 461	Society and Change.	3
EDER 494	Human Rights and Ethics in Practice.	3

French

Expand allContract all

Course	Title	Credits			
EDSL 341	Littératie et littérature jeunesse en FLS.	3	EDSL 247	Second Language Education in Indigenous Communities.	3
Music			EDSL 300	Foundations of L2 Education.	3
Expand all	Contract all		EDSL 370	Issues and Practices in Teaching Indigenous Languages.	3
Course	Title	Credits			
EDEA 341	Listening for Learning.	3	EDSL 390	Teaching English as a Second Language in the Community.	3

Natural Science

Expand all

Contract all

Course	Title	Credits			
EDEC 374	Education and the Environment.	3	Expand all	Contract all	
EDEE 370	Traditional Indigenous Life Skills.	3	Course	Title	Credits
EDEE 373	Traditional Healing.	3	EDEC 244	Issues in First Nations and Inuit Education	3
EDEE 473	Ecological Studies.	3	EDEC 313	Indigenous Land-Based Pedagogy.	3
			EDEC 591	Cultural Values and Socialization.	3
			EDEE 245	Orientation to Education.	3
			EDEE 444	First Nations and Inuit Curriculum.	3
			EDPC 209	Basic Crisis Intervention Skills.	3
			EDPI 441	Students with Behaviour Difficulties.	3
			EDPI 442	Students with Learning Difficulties.	3

Physical Education

Expand all

Contract all

Course	Title	Credits			
EDKP 204	Health Education.	3	EDKP 208	Biomechanics and Motor Learning.	3
EDKP 241	Indigenous Physical Activities.	3	EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness.	3			

Social Studies

Expand all

Contract all

Course	Title	Credits			
EDEE 383	Oral and Family History.	3			

Advanced Indigenous Languages

Expand all

Contract all

Course	Title	Credits			
EDEC 341	Intermediate Indigenous Heritage Language.	3	EDEC 342	Intermediate Indigenous Language.	3
EDEC 343	Advanced Indigenous Heritage Language.	3	EDEC 344	Advanced Indigenous Language.	3

Methods and Curriculum and Pedagogy Component (12 credits)

6-9 credits from the following

Expand all

Contract all

Course	Title	Credits			
EDEA 332	Art Curriculum and Instruction - Elementary.	3	EDEA 342	Curriculum and Instruction in Drama Education.	3
EDEA 345	Music Curriculum and Instruction for Generalists.	3	EDEC 243	Teaching: Multigrade Classrooms.	3
EDEE 243	Reading Methods for First Nations/Inuit Languages	3	EDEE 248	Reading and Writing in First Nations and Inuit Languages	3

Elective Courses (6 credits)

6 credits chosen from the Subject Area and/or the Methods and Curriculum and Pedagogy courses listed above. No more than 9 credits can be chosen from any one subject area.

Kindergarten and Elementary Jewish Studies (B.Ed.) (120 credits)**Offered by:** Integrated Studies in Ed (Faculty of Education)**Degree:** Bachelor of Education**Program credit weight:** 120 credits**Program Description**

Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120-credit program) for a total of 150 credits.

The Kindergarten and Elementary program leads to certification to teach children between the ages of 5 and 11 years (kindergarten and elementary school). The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of the program provides a school-based practicum.

The Jewish Studies option is addressed to students enrolled in the Kindergarten and Elementary program who wish to teach Jewish studies as well as general studies. Students are encouraged to acquire a strong background in Bible, Jewish prayer, Jewish holidays, and Jewish history prior to registering in the option. Students lacking the

ability to teach in Hebrew should consider spending a semester at an Israeli university or seek other avenues to improve their language skills.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Ministry (Education). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs," and "Quebec Teacher Certification."

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in the subjects taught in elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology). For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by clicking on the course CRN for registration. Check prerequisites before registering.

Expand allContract all

Course	Title	Credits
EDEC 325	Children's Literature.	3
EDEM 220	Contemporary Issues in Education.	3
EDES 366	Literature for Young Adults.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
MATH 111	Mathematics for Education Students.	3
RELG 207	Introduction to the Study of Religions.	3
WCOM 250	Research Essay and Rhetoric.	3

Required Courses (87 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 203	Communication in Education.	3
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3

EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 253	Second Professional Seminar (Kindergarten/ Elementary).	1
EDEC 262	Media, Technology and Education.	3
EDEC 405	Fourth Year Professional Seminar (K/Elem).	3
EDEE 223	Language Arts.	3
EDEE 230	Elementary School Mathematics 1.	3
EDEE 253	Kindergarten Classroom Pedagogy.	3
EDEE 260	Reading Methods - Kindergarten/Elementary.	3
EDEE 270	Elementary School Science.	3
EDEE 273	Elementary School Science 2.	3
EDEE 280	Geography, History and Citizenship Education.	3
EDEE 283	Social Studies Pedagogy.	3
EDEE 332	Teaching Elementary Mathematics 2.	3
EDEE 353	Third Year Professional Seminar (Kindergarten/ Elementary).	3
EDEE 355	Classroom-based Evaluation.	3
EDER 320	Visions and Realities of Jewish Education.	3
EDER 360	Culture and Citizenship in Quebec Context (K/ Elem).	2
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 256	Second Field Experience (Kindergarten/ Elementary).	3
EDFE 306	Third Field Experience (Kindergarten/ Elementary).	8
EDFE 406	Fourth Field Experience (K/Elem).	7
EDPE 300	Educational Psychology.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3
JWST 211	Jewish Studies 1: Biblical Period.	3

Complementary Courses (30 credits)

Equity Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Teaching Methods (12 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
EDEA 332	Art Curriculum and Instruction - Elementary.	3
EDEA 342	Curriculum and Instruction in Drama Education.	3
EDEA 345	Music Curriculum and Instruction for Generalists.	3

9 credits from:

Expand allContract all

Course	Title	Credits
EDER 252	Understanding and Teaching Jewish Life.	3
EDER 318	Teaching the Jewish Liturgy.	3
EDER 319	Teaching the Holocaust.	3
EDER 401	Teaching Biblical Literature - Jewish School 1.	3

Kindergarten and Elementary - Subject Area: Jewish Studies (15 credits)

In consultation with the Jewish Studies option Program Adviser, students select 15 credits from the undergraduate course offerings of the Department of Jewish Studies, Faculty of Arts.

Electives (3 credits)

Kindergarten and Elementary Pédagogie de l'Immersion Française (B.Ed.) (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Requirements

The Kindergarten and Elementary Pédagogie de l'Immersion Française major is designed to meet the needs of students enrolled in the B.Ed. Kindergarten and Elementary program who wish to teach in French immersion contexts. It consists of 30 credits of French and second language education courses embedded within the regular B.Ed. Kindergarten and Elementary program. In addition, certain other course sections may be offered in French.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification".

Competency in French

Students wishing to follow the Kindergarten and Elementary Pédagogie de l'Immersion Française major must demonstrate a high level of competency in French by providing proof that:

- i. The candidate attended a French-language institution for high school and/or university in Canada or elsewhere in the world for at least four consecutive years; or
- ii. The candidate attended a French-language university in Quebec for at least three consecutive years; or

iii. The candidate completed secondary V in a French-language institution in Quebec as well as a DEC at a French-language CEGEP.

Otherwise, they must have successfully completed the French Language Placement Test (FLPT) at the French Language Centre (McGill).

Pédagogie de l'Immersion Française (PIF) Foundation Year (U0)

Students from outside of Quebec may be required to complete the Foundation-option en français year (offered through the French Language Centre, Faculty of Arts). Students undertaking the Foundation en français year may be accepted into the PIF program by passing the McGill Test de Français Admission - PIF (TFA-PIF).

Required Courses (108 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 203	Communication in Education.	3
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 253	Second Professional Seminar (Kindergarten/ Elementary).	1
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEC 405	Fourth Year Professional Seminar (K/Elem). ¹	3
EDEE 223	Language Arts.	3
EDEE 230	Elementary School Mathematics 1. ¹	3
EDEE 253	Kindergarten Classroom Pedagogy.	3
EDEE 260	Reading Methods - Kindergarten/Elementary. ¹	3
EDEE 270	Elementary School Science.	3
EDEE 273	Elementary School Science 2. ¹	3
EDEE 280	Geography, History and Citizenship Education. ¹	3
EDEE 283	Social Studies Pedagogy.	3
EDEE 332	Teaching Elementary Mathematics 2. ¹	3
EDEE 353	Third Year Professional Seminar (Kindergarten/ Elementary).	3
EDEE 355	Classroom-based Evaluation.	3
EDER 360	Culture and Citizenship in Quebec Context (K/ Elem).	2
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 256	Second Field Experience (Kindergarten/ Elementary).	3
EDFE 306	Third Field Experience (Kindergarten/ Elementary).	8 ²
EDFE 406	Fourth Field Experience (K/Elem).	7
EDPE 300	Educational Psychology.	3
EDPI 309	Diverse Learners.	3

Course	Title	Credits
EDPI 341	Instruction in Inclusive Schools.	3
EDSL 300	Foundations of L2 Education.	3
EDSL 301	Étude de la langue.	3
EDSL 305	L2 Learning: Classroom Settings.	3
EDSL 341	Littératie et littérature jeunesse en FLS.	3
¹	Students must register in the sections designated as 'Bilingual section'.	
²	Note: At least one of these Field Experiences must be completed in a French immersion setting.	
EDKP 332	Physical Education Curriculum and Instruction.	3
EDSL 501	Attestation de maîtrise langue française. ¹	0
MATH 111	Mathematics for Education Students. ¹	3
POLI 336	Le Québec et le Canada.	3

Kindergarten and Elementary Teaching Methods

Expand allContract all

Course	Title	Credits
EDSL 345	Enseignement du FLS-immersion.	3
EDSL 444	Laboratoire d'enseignement en français langue seconde.	3

French

Expand allContract all

Course	Title	Credits
FRSL 431	Français fonctionnel avancé.	6

Complementary Courses (6 credits)

12 credits selected as described below:

Equity Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Culture and Citizenship in Quebec

3 credits from:

Expand allContract all

Course	Title	Credits
EDER 309	The Search for World Views.	3
EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3
QCST 200	Introduction to the Study of Quebec.	0-3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3

Elective Courses (6 credits)

The following courses are suggested:

Expand allContract all

FREN or FRSL (400 level, except FRSL 407 or FRSL 408) in keeping with individual student's French background.

¹ In consultation with an adviser and in keeping with individual student's french background.

Major Education in Global Contexts (B.A. Education) (90 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: BA-ED

Program credit weight: 90 credits

Program Description

The B.A.(Education): Major Education in Global Contexts is intended to equip students with a strong grounding in educational theory, issues and challenges, with an emphasis on building in-depth understandings on key issues facing education in diverse global contexts. A foundational program, it provides a variety of pathways for future study or employment for our students in a range of government, educational, industry and community organizations. Students complete a 54 credit major in Education in Global Contexts addressing the core of the program, with the addition of an 18 credit minor in a complementary discipline (choice of three approved minors), and complete the degree with 18 credits of electives. The program includes an internship and opportunities for applied research. This program is a general degree mirroring the "Liberal Arts" degree, but specifically in the area of Education.

NOTE: This program does not lead to Teacher Certification for formal elementary/secondary classroom teaching in the Province of Quebec.

Foundation Program

Students whose highest level of education is high school (normally out of province) are admitted into Year 0 (U0) to complete the Foundation Program. Foundation students are required to complete 30 credits of introductory (100- or 200- level) courses of the students' choice (in addition to the 90-credit program), verified by an adviser , for a total of 120 credits. Students will not be granted permission to take first-year (U1) courses if the credits from the Freshman year have not been obtained. In consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. There are no required courses in the Foundation Program, though the department recommends that students use the opportunity to take 100- or 200- level courses in the subject areas that interest them or

are relevant to their chosen concentration. As well, the Freshman year offers students the opportunity to explore areas that are not typically taken as a course of study in the program.

1

Foundation Advising:

All Foundation students must have their Fall and Winter course selections verified prior to the start of classes. This can be done by email or by attending the group advising session in late August. To verify your course selection by email, send a message to edgc.advise@mcgill.ca with the subject "B.A.(Education) Foundation Course Selection" including your student ID number and Adviser name.

The department recommends the following courses:

Courses in the Faculty of Education:

Expand allContract all

Course	Title	Credits
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDPE 208	Personality and Social Development.	3
EDPT 204	Creating and Using Media for Learning.	3

Courses from the French Language Centre:

(Placement tests may be required)

Expand allContract all

Course	Title	Credits
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3

Courses Across McGill Faculties:

Expand allContract all

Course	Title	Credits
INDG 200	Introduction to Indigenous Studies.	3
INTD 200	Introduction to International Development.	3
RELG 207	Introduction to the Study of Religions.	3
SOCI 210	Sociological Perspectives.	3
WCOM 250	Research Essay and Rhetoric.	3

For examples of courses suitable for Foundation Year 0 students, see the Faculty of Education approved foundation courses (<https://www.mcgill.ca/dise/foundndationcourses>).

If you are admitted into McGill with advanced standing (International Baccalaureate, Advanced Placement, etc.), those credits may be used to fulfill some or all of your Foundation requirements.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
EDEC 202	Effective Communication.	3
EDEC 221	Leadership and Group Skills.	3
EDEC 233	Indigenous Education.	3
EDEC 249	Global Education and Social Justice.	3
EDEC 260	Philosophical Foundations.	3
EDEM 220	Contemporary Issues in Education.	3
EDER 461	Society and Change.	3
EDGC 201	Media, Learning, and Digital Cultures	3
EDGC 299	Professional and Research Seminar.	3
EDGC 301	Program Design and Evaluation.	3
EDGC 398	Internship: Education in Global Contexts.	0
EDGC 400	21st Century Learning.	3
EDGC 490	Critical Research Inquiry.	3
EDGC 495	Capstone Research Project.	3
EDPE 300	Educational Psychology.	3

Complementary Courses (30 credits)

12 credits from the following; no more than 9 credits from one specific list. Other courses on these topics from the Faculty of Education or other Faculties may be selected subject to approval of program adviser.

Leadership and Social Change

Expand allContract all

Course	Title	Credits
EDGC 300	Special Topics. ¹	3
EDGC 312	Understanding Teacher Leadership.	3
EDGC 313	Cultivating Process of Social Transformation.	3
EDGC 411	Affect, Education, and Social Change.	3
EDGC 412	Historical Knowledge: Tool for Agents of Change.	3

¹ when topic is relevant to this list.

Ethics, Wellbeing, and Diverse Knowledge Approaches

Expand allContract all

Course	Title	Credits
EDER 494	Human Rights and Ethics in Practice.	3
EDGC 222	Integrating Arts into STEM. ¹	3
EDGC 300	Special Topics.	3
EDGC 324	Physical Health and Wellbeing in Education.	3
EDGC 423	Human Knowledge Claims and Education.	3
EDSL 390	Teaching English as a Second Language in the Community.	3

¹ when topic is relevant to this list.

Critical Issues in Education

Expand allContract all

Course	Title	Credits
EDGC 200	Knowledge through the Arts.	3
EDGC 233	Learning in Out-of-School Contexts. ¹	3
EDGC 300	Special Topics.	3
EDGC 335	Eco-Justice and Sustainability in Education.	3
EDGC 336	Race, Class, and Power in Education in Global Contexts.	3
EDGC 337	Gendered Identities, Social Learning.	3
EDPI 341	Instruction in Inclusive Schools.	3
EDSL 500	Foundations and Issues in Second Language Education.	3
EDEM 501	Global Higher Education	3

¹ when topic is relevant to this list.

Children and Youth

Expand allContract all

Course	Title	Credits
EDGC 244	Investigating Children's Reasoning. ¹	3
EDGC 300	Special Topics.	3
EDGC 348	Global Perspectives of Early Childhood Education.	3
EDGC 444	Critical Contexts of Youth Development and Wellbeing.	3

¹ when topic is relevant to this list.

One of the following approved minors:

B.Com.; Minor in Management for Non-Management Students

B.A.; Minor Concentration in International Development Studies

B.A.; Minor Concentration in Educational Psychology

Subject to approval of program director and with permission from the offering unit of the Minor, students may complete an additional (second) Minor [either offered by the Faculty of Education or another faculty.] in order to fulfill the requirement of 18 credits of elective courses

Elective Courses (18 credits)

18 credits of electives selected from Faculty of Education offerings.

Exceptionally, students may be permitted to take courses elsewhere in the University with permission of the program adviser.

Music Education / Music Elementary and Secondary Concurrent Major (B.Mus./B.Ed.) (170 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 170

**** The concurrent Concurrent B.Mus./B.Ed. program is currently not offered; B.Ed. Music is open to applicants having already completed a Bachelor of Music****

Program Description

The Concurrent B.Mus./B.Ed. combines the Bachelor of Music (Major Music Education) with the Bachelor of Education (Music Elementary and Secondary).

Requirements are normally completed in five years and lead to certification as a school teacher in the Province of Quebec. Out-of-province students (or those without Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program) are required to complete 170 credits, normally in six years.

Applicants who already hold a Bachelor of Music degree from a North American university should apply directly to the Bachelor of Education in Music Elementary and Secondary (B.Ed. Music) program offered by the Faculty of Education <https://www.mcgill.ca/dise/progs/music>.

Notes:

1. Students majoring in Music Education in the jazz stream may take MUJZ 260 Jazz Arranging 1. with the permission of the instructor, per available space in the course, and if they have the prerequisite, MUJZ 161 Jazz Materials 2.. Alternatively, they may be asked to register for a different jazz stream course upon the recommendation of the Jazz Area Chair and/or the Music Education Area Chair.
2. In addition to meeting prerequisites/co-requisites for MUCO 230 The Art of Composition. or MUCO 261 Orchestration 1., students must obtain the relevant instructor's permission, per available space in the course, prior to registration. MUCO 260 Instruments of the Orchestra. is waived as a prerequisite for MUCO 230 The Art of Composition..

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of prospective music educators as musicians. This is achieved both through core music history, theory, musicianship, and performance courses, as well as through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musicians as educators. This is achieved through courses in educational foundations, music pedagogy, pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary (excluding the 33-credit Foundation Program) are as follows:

58 credits in Education

71 credits in Music

8 free elective credits

Program Prerequisites - Foundation Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of Non-Music Electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music, will be exempted from the first-year Western Musical Traditions requirement (MUHL 186 Western Musical Traditions.).

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUPD 235	Music as a Profession 2.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Music Components (48 credits)

Music Education

Expand allContract all

Course	Title	Credits
MUCT 235	Vocal Techniques.	3
MUGT 215	Basic Conducting Techniques.	1
MUGT 354	Music for Children.	3
MUGT 358	General Music for Adults and Teenagers.	3
MUGT 401	Issues in Music Education.	3
MUIT 202	Woodwind Techniques.	3
MUIT 203	Brass Techniques.	3

MUIT 204	Percussion Techniques.	3
MUIT 356	Jazz Instruction: Philosophy and Techniques.	3

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses - Music Components (24 credits)

Composing/Arranging

3 credits from:

Course	Title	Credits
MUCO 230	The Art of Composition.	3
MUCO 261	Orchestration 1.	3
MUJZ 260	Jazz Arranging 1.	3

Music Education

3 credits from:

Course	Title	Credits
MUIT 201	String Techniques.	3
MUIT 250	Guitar Techniques.	3

3 credits from:

Expand allContract all

Course	Title	Credits
MUCT 315	Choral Conducting 1.	3
MUIT 315	Instrumental Conducting.	3

3 credits from courses with a prefix of MUIT or MUGT.

Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 355	Musicianship for Percussion.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Music History

6 credits from courses with a prefix of MUHL or MUPP.

Performance

4 credits from:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Elective Courses (8 credits)

8 credits of free electives

Required Courses - Education Component (49 credits)

Expand allContract all

Course	Title	Credits
EDEA 206	1st Year Professional Seminar.	1
EDEA 208	Second Professional Seminar (Music).	1
EDEA 407	Final Year Professional Seminar Music.	3

EDEA 442	Methods in Music Education 1.	3
EDEA 472	Methods in Music Education 2.	3
EDEC 215	English Exam for Teacher Certification.	0
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDES 350	Classroom Practices.	3
EDFE 205	First Field Experience (Music).	2
EDFE 208	Second Field Experience (Music).	3
EDFE 308	Third Field Experience (Music).	8
EDFE 407	Fourth Field Experience (Music).	7
EDFE 300	Indigenous Education Field Experience.	5
EDPI 341	Instruction in Inclusive Schools.	3

Required Indigenous Studies Course (3 credits)

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3

or any other course with Indigenous Studies content approved by the Faculty of Education.

Complementary Courses - Education Components (6 credits)

3 credits from:

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

3 credits from:

Course	Title	Credits
EDEE 355	Classroom-based Evaluation.	3
EDPE 304	Measurement and Evaluation.	3

Secondary English (B.Ed.) (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)**Degree:** Bachelor of Education**Program credit weight:** 120

Program Description

The Bachelor of Education (B.Ed.) in Secondary English program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate,

International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. in Secondary Education program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this Course Catalogue section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secenglish>.

The Secondary English program provides students with the learning opportunities needed to become proficient English teachers.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification".

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in English, as well as to explore areas that are not normally taken as "teachable" subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes English literature courses that may be used toward the academic component of the Secondary English course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

Expand allContract all

Course	Title	Credits
EDEC 203	Communication in Education. ¹	3
EDEM 220	Contemporary Issues in Education.	3
ENGL 201	Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 226	American Literature 2.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3

RELG 207	Introduction to the Study of Religions.	3
WCOM 250	Research Essay and Rhetoric.	3

¹ Note: Students may take either WCOM 250 OR EDEC 203 for credit but not both

Required Courses (63 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 254	Second Professional Seminar (Secondary).	1
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEC 351	Third Professional Seminar (Secondary).	2
EDEC 404	Fourth Year Professional Seminar (Sec).	3
EDES 350	Classroom Practices.	3
EDES 361	Teaching Secondary English 1.	3
EDES 366	Literature for Young Adults.	3
EDES 461	Teaching Secondary English 2.	3
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 254	Second Field Experience (Secondary).	3
EDFE 351	Third Field Experience (Secondary).	8
EDFE 451	Fourth Field Experience (Secondary).	7
EDPE 300	Educational Psychology.	3
EDPE 304	Measurement and Evaluation.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3

Complementary Courses (35 credits)

Equity Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Secondary English Subject Area

48 credits from one of the following streams.

Stream 1

Language/Linguistics

6 credits from the following:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDEC 203	Communication in Education.	3	ENGL 279	Introduction to Film History.	3
EDSL 305	L2 Learning: Classroom Settings.	3	ENGL 280	Introduction to Film as Mass Medium.	3
EDSL 350	Essentials of English Grammar.	3	LLCU 200	Topics in Film.	3
LING 200	Introduction to the Study of Language.	3			
LING 201	Introduction to Linguistics.	3			
WCOM 250	Research Essay and Rhetoric. ¹	3			

¹ Note: Students may take either WCOM 250 OR EDEC 203 for credit but not both

Complementary Language/Linguistics Courses (6 credits)

¹ Note: Students may take either WCOM 250 Research Essay and Rhetoric. OR EDEC 203 Communication in Education. for credit but not both

42 credits distributed as follows (including at least one course in Shakespeare):

Literature

30 credits, a minimum of 15 credits must be at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Course	Title	Credits
ENGL 200	Survey of English Literature 1.	3
ENGL 201	Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 225	American Literature 1.	3
ENGL 226	American Literature 2.	3
ENGL 227	American Literature 3.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
JWST 206	Introduction to Yiddish Literature.	3
JWST 225	Literature and Society.	3
LLCU 220	Introduction to Literary Analysis.	3
RUSS 218	Russian Literature and Revolution.	3

Cultural Studies

9 credits, a minimum of 3 credits must be at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Drama/Theatre

3 credits chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Course	Title	Credits
ENGL 215	Introduction to Shakespeare.	3
ENGL 230	Introduction to Theatre Studies.	3

Stream 2

Language/Linguistics

6 credits from the following courses list:

Expand allContract all

Course	Title	Credits
EDEC 203	Communication in Education. ¹	3
EDSL 305	L2 Learning: Classroom Settings.	3
EDSL 350	Essentials of English Grammar.	3
LING 200	Introduction to the Study of Language.	3
LING 201	Introduction to Linguistics.	3
LING 355	Language Acquisition 1.	3
WCOM 250	Research Essay and Rhetoric. ¹	3

¹ Note: Students may take either WCOM 250 OR EDEC 203 for credit but not both.

27 credits, distributed as follows (including at least one course in Shakespeare):

Literature

18 credits, a minimum of 6 credits at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Course	Title	Credits
ENGL 200	Survey of English Literature 1.	3
ENGL 201	Survey of English Literature 2.	3
ENGL 215	Introduction to Shakespeare.	3
ENGL 225	American Literature 1.	3
ENGL 226	American Literature 2.	3
ENGL 227	American Literature 3.	3
ENGL 228	Canadian Literature 1.	3
ENGL 229	Canadian Literature 2.	3
GERM 259	Introduction to German Literature 1.	3
GERM 260	Introduction to German Literature 2.	3
JWST 206	Introduction to Yiddish Literature.	3
JWST 225	Literature and Society.	3
LLCU 220	Introduction to Literary Analysis.	3
RUSS 218	Russian Literature and Revolution.	3

LLCU 220	Introduction to Literary Analysis.	3	make up any deficiencies in these courses over and above the degree requirements.
RUSS 218	Russian Literature and Revolution.	3	The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level.

Cultural Studies

6 credits, a minimum of 3 credits at the 300 level or higher from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Course	Title	Credits
ENGL 279	Introduction to Film History.	3
ENGL 280	Introduction to Film as Mass Medium.	3
LLCU 200	Topics in Film.	3

Drama/Theatre

3 credits chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

Expand allContract all

Course	Title	Credits
ENGL 215	Introduction to Shakespeare.	3
ENGL 230	Introduction to Theatre Studies.	3

Unofficial "Teachable" Subject Area (15 credits)

15 credits of designated courses for Secondary English Stream 2 students (Math, Social Sciences, or Science and Technology - see an adviser for course selection.)

Elective Courses (6 credits)

Note: Students who have chosen to do Stream 2 (33 credits in one teachable subject and 15 credits in another) will use 3 credits of electives to take the Secondary Teaching Methods course needed for their second unofficial teachable subject.

Secondary Mathematics (B.Ed.) (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

The Bachelor of Education (B.Ed.) - Secondary Mathematics program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120 credits for the program) for a total of 150 credits.

Note: Students entering this program from CEGEP or with Advanced Standing should have a strong background in their Mathematics courses. Students entering from CEGEP or with Advanced Standing without having completed two calculus courses and one linear algebra course (MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2. or their equivalents) will be required to

This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this Course Catalogue section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secmath>.

The Secondary Mathematics program provides students with the learning opportunities needed to become proficient Mathematics teachers.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in Mathematics, as well as to explore areas that are not normally taken as teachable subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

Students in the Secondary Mathematics program must complete three Math prerequisite courses in their Foundation year, MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1., and MATH 141 Calculus 2..

In addition, students select courses from the recommended list below or other courses in consultation with the Program Adviser. The French Second Language (FRSL) courses suggested require a placement test to determine the appropriate course level.

Expand allContract all

Course	Title	Credits
EDEM 220	Contemporary Issues in Education.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
RELG 204	Judaism, Christianity and Islam.	3

RELG 207	Introduction to the Study of Religions.	3	Or
WCOM 250	Research Essay and Rhetoric.	3	Option 2

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits	
EDEC 201	First Year Professional Seminar.	1	
EDEC 215	English Exam for Teacher Certification.	0	15 credits of designated courses in another unofficial "teachable" subject area (English, Social Sciences, or Science and Technology - see an adviser for courses).
EDEC 233	Indigenous Education.	3	
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3	
EDEC 254	Second Professional Seminar (Secondary).	1	
EDEC 260	Philosophical Foundations.	3	
EDEC 262	Media, Technology and Education.	3	
EDEC 351	Third Professional Seminar (Secondary).	2	
EDEC 404	Fourth Year Professional Seminar (Sec.).	3	
EDES 350	Classroom Practices.	3	
EDES 353	Teaching Secondary Mathematics 1.	3	
EDES 453	Teaching Secondary Mathematics 2.	3	
EDFE 200	First Field Experience (K/Elem and Secondary).	2	
EDFE 254	Second Field Experience (Secondary).	3	
EDFE 351	Third Field Experience (Secondary).	8	(30 OR 15 credits)
EDFE 451	Fourth Field Experience (Secondary).	7	3 credits from:
EDPE 300	Educational Psychology.	3	
EDPE 304	Measurement and Evaluation.	3	
EDPI 309	Diverse Learners.	3	
EDPI 341	Instruction in Inclusive Schools.	3	

Complementary Courses (3 credits)

3 credits selected as described below.

Multicultural Education

3 credits from:

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Secondary Mathematics Subject Area (51 credits)

Secondary Mathematics students complete 51 credits selected in consultation with the Program Adviser in one of two options.

Option 1

21 credits from the list of "Required Mathematics Courses" and

30 credits from the list of "Complementary Mathematics Courses"

21 credits from the list of "Required Mathematics Courses" and

15 credits from the list of "Complementary Mathematics Courses"

And

15 credits of designated courses in another unofficial "teachable" subject area (English, Social Sciences, or Science and Technology - see an adviser for courses).

Required Mathematics Courses (21 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 228	Classical Geometry.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 338	History and Philosophy of Mathematics.	3

Complementary Mathematics Courses

(30 OR 15 credits)

3 credits from:

Course	Title	Credits
MATH 235	Algebra 1. ¹	3
MATH 242	Analysis 1. ¹	3

¹ Should be taken in Year 1 or Year 2

27 credits from the list below for Secondary Mathematics Option 1 students or 12 credits from the list below for Secondary Mathematics Option 2 students

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 230	Logic and Computability.	3
EDTL 520	Perspectives on Knowledge in Mathematics and Science.	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 314	Advanced Calculus.	3
MATH 316	Complex Variables.	3
MATH 317	Numerical Analysis. ¹	3
MATH 318	Mathematical Logic.	3

MATH 319	Partial Differential Equations .	3	in conjunction with the summary companion document (Program Overview) found at http://www.mcgill.ca/dise/progs/secscitech .
MATH 326	Nonlinear Dynamics and Chaos.	3	
MATH 327	Matrix Numerical Analysis.	3	The Secondary Science and Technology program provides students with the subject matter expertise in the Living World, Earth and Space, the Material World, and the Technological World needed to teach the secondary science curriculum in Quebec schools.
MATH 329	Theory of Interest.	3	
MATH 340	Discrete Mathematics.	3	
MATH 346	Number Theory.	3	Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification."
MATH 348	Euclidean Geometry.	3	
MATH 417	Linear Optimization.	3	
MATH 423	Applied Regression.	3	
MATH 447	Introduction to Stochastic Processes.	3	
MATH 523	Generalized Linear Models.	4	
MATH 524	Nonparametric Statistics.	4	
MATH 525	Sampling Theory and Applications. ¹	4	
PHIL 210	Introduction to Deductive Logic 1.	3	Note: Students entering this program from CEGEP or with Advanced Standing should have completed two biology courses, two chemistry courses, two math courses and two physics courses at the CEGEP level. Students entering from CEGEP without having completed these prerequisites (or their equivalents) will be required to make up any deficiencies in these courses over and above the degree requirements.

¹ Students cannot receive credit for both.

Unofficial "Teachable" Subject Area (15 credits)

15 credits of designated courses for Secondary Mathematics Option 2 students (English, Social Sciences, or Science and Technology - see an adviser for course selection)

Electives (6 credits)

Note: Students who have chosen to do 36 credits in one teachable subject and 15 credits in another will use 3 credits of electives to take the Secondary Teaching Methods course needed for their second unofficial teachable subject.

Secondary Science and Technology (B.Ed.) (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

The Bachelor of Education (B.Ed.) - Secondary Science and Technology program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this Course Catalogue section must be used

Foundation Program - Basic Sciences

Foundation program in the Science and Technology program must complete the 29 to 30 credits of Basic Science courses listed below in their first year of studies.

Fall Term

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
CHEM 110	General Chemistry 1.	4
MATH 139	Calculus 1 with Precalculus.	4
or MATH 140	Calculus 1.	
or MATH 150	Calculus A.	
PHYS 101	Introductory Physics - Mechanics.	4
or PHYS 131	Mechanics and Waves.	

Winter term

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 120	General Chemistry 2.	4
MATH 141	Calculus 2.	4
or MATH 151	Calculus B.	
PHYS 102	Introductory Physics - Electromagnetism.	4
or PHYS 142	Electromagnetism and Optics.	

Students should consult a program adviser for guidance on which Fall and Winter term Math and Physics courses should be taken. Course choices depend on a student's background in science and plans for upper-level Physics courses.

Expand allContract all

Course	Title	Credits				Credits
BIOl 111	Principles: Organismal Biology.	3	EDES 435	Teaching Secondary Science 2.		3
BIOl 112	Cell and Molecular Biology.	3	EDFE 200	First Field Experience (K/Elem and Secondary).	2	
CHEM 110	General Chemistry 1.	4	EDFE 254	Second Field Experience (Secondary).		3
CHEM 120	General Chemistry 2.	4	EDFE 351	Third Field Experience (Secondary).	8	
MATH 139	Calculus 1 with Precalculus.	4	EDFE 451	Fourth Field Experience (Secondary).	7	
MATH 140	Calculus 1.	3	EDPE 300	Educational Psychology.	3	
MATH 141	Calculus 2.	4	EDPE 304	Measurement and Evaluation.	3	
MATH 150	Calculus A.	4	EDPI 309	Diverse Learners.	3	
MATH 151	Calculus B.	4	EDPI 341	Instruction in Inclusive Schools.		3
PHYS 101	Introductory Physics - Mechanics.	4				
PHYS 102	Introductory Physics - Electromagnetism.	4				
PHYS 131	Mechanics and Waves.	4				
PHYS 142	Electromagnetism and Optics.	4				

Foundation Program - Complementary

For Foundation students with Advanced Standing in one or more of the basic sciences, the Faculty also recommends some of the courses listed below. French Second Language (FRSL) courses require a placement test to determine the course level.

Expand allContract all

Course	Title	Credits
EDEM 220	Contemporary Issues in Education.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
WCOM 250	Research Essay and Rhetoric.	3

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 254	Second Professional Seminar (Secondary).	1
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEC 351	Third Professional Seminar (Secondary).	2
EDEC 404	Fourth Year Professional Seminar (Sec.).	3
EDES 335	Teaching Secondary Science 1.	3
EDES 350	Classroom Practices.	3

Complementary Courses (3 credits)

3 credits selected as described below:

Equity Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Secondary Science and Technology (51 credits)

51 credits in designated science courses selected to provide subject matter expertise in the four areas of:

the Material World

- Earth and Space
- the Living World
- the Technological World

All students need to plan their course selections with attention to the prerequisites.

Required Courses (15 credits)

3 credits of Statistics:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3

3 credits of History of Science:

Expand allContract all

Course	Title	Credits
EDTL 520	Perspectives on Knowledge in Mathematics and Science.	3

3 credits of the Material World:

Expand allContract all

Course	Title	Credits
CHEM 281	Inorganic Chemistry 1.	3

3 credits of the Living World:

Expand allContract all

Course	Title	Credits
BIOL 206	Methods in Biology.	3

3 credits of the Technological World:

Expand allContract all

Course	Title	Credits
EDTL 525	Teaching Science and Technology.	3

Core Complementary Courses (10 credits)

The Living World

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
LSCI 202	Molecular Cell Biology.	3

The Material World

3 credits from:

Expand allContract all

Course	Title	Credits
CHEM 203	Survey of Physical Chemistry.	3
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3

4 credits:

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	4

Complementary Courses (26 credits)

At least 9 of the 26 credits must be taken at the 300 level or above, distributed as follows:

- 3 to 15 credits from the Living World complementary list;
- 3 to 18 credits from Earth and Space complementary list;
- 3 to 18 credits from Earth and Space - Environment complementary list;
- 0 to 15 credits from the Material World complementary list;
- 3 to 12 credits from the Technological World complementary list.

Living World

Students select a minimum of 3 credits to a maximum of 15 credits from the following lists:

Cell and Molecular Biology

Expand allContract all

Course	Title	Credits
BIOL 201	Cell Biology and Metabolism.	3
BIOL 202	Basic Genetics.	3
BIOL 300	Molecular Biology of the Gene.	3

BIOL 301	Cell and Molecular Laboratory.	4
BIOL 313	Eukaryotic Cell Biology.	3

Human and Organismal Biology

Expand allContract all

Course	Title	Credits
Biol 205	Functional Biology of Plants and Animals.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 395	Exercise Physiology.	3
NUTR 207	Nutrition and Health.	3
NUTR 307	Metabolism and Human Nutrition.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

Populations, Ecosystems, and Evolution

Expand allContract all

Course	Title	Credits
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 240	Monteregian Flora.	3
BIOL 304	Evolution.	3
BIOL 305	Animal Diversity.	3
BIOL 308	Ecological Dynamics.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 352	Dinosaur Biology.	3
ENVB 305	Population and Community Ecology.	3
EPSC 334	Invertebrate Paleontology.	3

Earth and Space

Students select a minimum of 3 credits to a maximum of 18 credits from the following list:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry.	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 315	Thermodynamics and Convection.	3
ENVR 202	The Evolving Earth.	3
EPSC 201	Understanding Planet Earth.	3
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 221	General Geology.	3
EPSC 225	Properties of Minerals.	1
EPSC 233	Earth and Life Through Time	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3
EPSC 350	Tectonics.	3

ESYS 200	Earth-System Interactions.	3	PHYS 340	Majors Electricity and Magnetism.	3
ESYS 300	Earth Data Analysis.	3	PHYS 342	Majors Electromagnetic Waves.	3
ESYS 301	Earth System Modelling.	3	PHYS 346	Majors Quantum Physics.	3
GEOG 272	Earth's Changing Surface.	3	PHYS 432	Physics of Fluids.	3
GEOG 321	Climatic Environments.	3	PHYS 434	Optics.	3
PHYS 320	Introductory Astrophysics.	3	PHYS 447	Applications of Quantum Mechanics.	3

Earth and Space - Environment

Students select a minimum of 3 credits to a maximum of 18 credits from the following list:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 221	Environment and Health.	3

The Material World

Students select a maximum of 15 credits from the following list:

Note: Students who plan to teach Grade 11 Chemistry or Physics should select the maximum 15 credits from this list:

Expand allContract all

Course	Title	Credits
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 392	Experimental Chemistry 1.	3
CHEM 429	Chemistry of Energy, Storage and Utilization.	3
MATH 222	Calculus 3.	3
PHYS 224	Physics of Music.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3
PHYS 242	Electricity and Magnetism.	2
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 328	Electronics.	3
PHYS 331	Topics in Classical Mechanics.	3
PHYS 333	Thermal and Statistical Physics.	3
PHYS 339	Measurements Laboratory in General Physics.	3

The Technological World

Students select a minimum of 3 credits to a maximum of 12 credits from the following list:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 280	History and Philosophy of Computing.	3
MATH 204	Principles of Statistics 2.	3

Elective Courses (6 credits)

Secondary Social Sciences (B.Ed.) - History and Citizenship, Culture and Citizenship in Quebec (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

The Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Culture and Citizenship in Quebec program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secsocsci>.

The Secondary Social Sciences - History and Citizenship, Culture and Citizenship in Quebec program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in the associated disciplinary areas. Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education

for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification."

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation Program year is the time to take introductory-level courses in a teachable subject area, as well as to explore areas that are not normally taken within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes History, Geography, and Religious Studies courses that may be used toward the academic component of the Secondary Social Sciences course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

Expand allContract all

Course	Title	Credits
EDEM 220	Contemporary Issues in Education.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 210	Global Places and Peoples.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 207	Introduction to the Study of Religions.	3
RELG 252	Hinduism and Buddhism.	3
WCOM 250	Research Essay and Rhetoric.	3

Required Courses (69 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3

EDEC 254	Second Professional Seminar (Secondary).	1
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEC 351	Third Professional Seminar (Secondary).	2
EDEC 404	Fourth Year Professional Seminar (Sec).	3
EDER 372	Culture and Citizenship in Quebec Context (Secondary).	3
EDES 334	Teaching Secondary Social Studies 1.	3
EDES 350	Classroom Practices.	3
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 254	Second Field Experience (Secondary).	3
EDFE 351	Third Field Experience (Secondary).	8
EDFE 451	Fourth Field Experience (Secondary).	7
EDPE 300	Educational Psychology.	3
EDPE 304	Measurement and Evaluation.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 303	History of Quebec.	3

Complementary Courses (45 credits)

Equity Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

History & Citizenship, Culture and Citizenship in Quebec Subject Area(42 credits)

Students complete 42 credits in consultation with the Program Adviser with the following specifications:

24 credits from the following, of which 9 credits must be taken at the 300 or 400 level:

- 3-9 credits in European History
- 3-9 credits in Asian, African, American, Latin American, or Ancient History
- 6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health.
(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)
- 6-12 credits selected from the following list, of which at least 3 credits must be taken from both ECON and POLI:

[Expand all](#)[Contract all](#)

Course	Title	Credits	Citizenship	Credits
ANTH 338	Indigenous Studies of Anthropology.	3	6 credits from:	
CANS 200	Understanding Canada.	3	Expand all Contract all	
ECON 205	An Introduction to Political Economy.	3	Course	Title
ECON 208	Microeconomic Analysis and Applications.	3	CANS 413	Canada and Quebec Seminar.
ECON 209	Macroeconomic Analysis and Applications.	3	EDEC 374	Education and the Environment.
ECON 219	Current Economic Problems: Topics.	3	EDER 252	Understanding and Teaching Jewish Life.
ECON 221	Economic History.	3	EDER 319	Teaching the Holocaust.
ECON 313	Economic Development 1.	3	EDER 536	Critical and Ethical Dimensions of Sexualities Education.
ECON 326	Ecological Economics.	3	ENVR 201	Society, Environment and Sustainability. ¹
ECON 347	Economics of Climate Change.	3	ENVR 203	Knowledge, Ethics and Environment.
ENVR 201	Society, Environment and Sustainability.	3	JWST 382	Jews, Judaism and Social Justice.
ENVR 203	Knowledge, Ethics and Environment.	3	RELG 204	Judaism, Christianity and Islam.
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	RELG 207	Introduction to the Study of Religions.
POLI 221	Government of Canada.	3	RELG 252	Hinduism and Buddhism.
POLI 222	Political Process and Behaviour in Canada.	3	RELG 270	Religious Ethics and the Environment.
POLI 227	Introduction to Comparative Politics - Global South.	3	RELG 271	Religion and Sexuality.
POLI 243	International Politics of Economic Relations.	3	RELG 309	World Religions and Cultures They Create..
POLI 244	International Politics: State Behaviour.	3		
POLI 341	Foreign Policy: The Middle East.	3		
POLI 345	International Organizations.	3		
POLI 354	Approaches to International Political Economy.	3		
POLI 360	Security: War and Peace.	3		
POLI 362	Political Theory and International Relations.	3		
POLI 423	Politics of Ethno-Nationalism.	3		
POLI 435	Identity and Inequality.	3		
POLI 442	International Relations of Ethnic Conflict.	3		
POLI 450	Peacebuilding.	3		

Culture and Citizenship in Quebec

Students may select up to 9 credits from the following (no more than 3 credits from each subsection).

Other relevant courses can be chosen in consultation with an academic adviser.

Culture

6 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
CANS 413	Canada and Quebec Seminar.	3
CANS 415	Black Canada.	3
QCST 200	Introduction to the Study of Quebec.	3
QCST 300	Quebec Culture and Society.	3
QCST 440	Contemporary Issues in Quebec.	3

¹ Note: ENVR courses have limited enrolment.

Ethics and Philosophy

6 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
EDER 309	The Search for World Views.	3
EDER 395	Moral Values and Human Action.	3
EDER 461	Society and Change.	3
EDER 494	Human Rights and Ethics in Practice.	3
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3

Elective Courses (6 credits)

6 credits at the undergraduate level.

Secondary Social Sciences (B.Ed.) - History and Citizenship, Geography (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least

one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this Course Catalogue section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secsocsci>.

The Secondary Social Sciences - History and Citizenship, Geography program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in History and Geography.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Ministry (Education). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification."

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in a teachable subject area, as well as to explore areas that are not normally taken within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes History, Geography, and Religious Studies courses that may be used toward the academic component of the Secondary Social Sciences course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

Expand allContract all

Course	Title	Credits
EDEM 220	Contemporary Issues in Education.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 210	Global Places and Peoples.	3
HIST 202	Survey: Canada to 1867.	3

HIST 203	Survey: Canada since 1867.	3
HIST 214	Early Modern Europe.	3
HIST 215	Modern Europe.	3
RELG 204	Judaism, Christianity and Islam.	3
RELG 207	Introduction to the Study of Religions.	3
RELG 252	Hinduism and Buddhism.	3
WCOM 250	Research Essay and Rhetoric.	3

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 254	Second Professional Seminar (Secondary).	1
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEC 351	Third Professional Seminar (Secondary).	2
EDEC 404	Fourth Year Professional Seminar (Sec).	3
EDES 334	Teaching Secondary Social Studies 1.	3
EDES 350	Classroom Practices.	3
EDES 434	Teaching Secondary Social Studies 2.	3
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 254	Second Field Experience (Secondary).	3
EDFE 351	Third Field Experience (Secondary).	8
EDFE 451	Fourth Field Experience (Secondary).	7
EDPE 300	Educational Psychology.	3
EDPE 304	Measurement and Evaluation.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3

Complementary Courses (3 credits)

3 credits selected as described below:

Equity Education

3 credits from:

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Secondary Social Sciences - History and Citizenship, Geography Subject Area (51 credits)

Secondary Social Sciences - History and Citizenship, Geography students complete 51 credits selected in consultation with the Program Adviser with the following specifications:

Required Courses

History

9 credits selected from:

Expand allContract all

Course	Title	Credits
HIST 202	Survey: Canada to 1867.	3
HIST 203	Survey: Canada since 1867.	3
HIST 303	History of Quebec.	3

Complementary Courses (42 credits)

History and Citizenship (24 credits)

At least 9 of the 24 credits must be taken at the 300 or 400 level, distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

6-12 credits selected from the following list (students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI):

Expand allContract all

Course	Title	Credits
ANTH 338	Indigenous Studies of Anthropology.	3
CANS 200	Understanding Canada.	3
ECON 205	An Introduction to Political Economy.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 219	Current Economic Problems: Topics.	3
ECON 221	Economic History.	3
ECON 313	Economic Development 1.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3
POLI 221	Government of Canada.	3

POLI 222	Political Process and Behaviour in Canada.	3
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 244	International Politics: State Behaviour.	3
POLI 341	Foreign Policy: The Middle East.	3
POLI 345	International Organizations.	3
POLI 354	Approaches to International Political Economy.	3
POLI 360	Security: War and Peace.	3
POLI 362	Political Theory and International Relations.	3
POLI 423	Politics of Ethno-Nationalism.	3
POLI 435	Identity and Inequality.	3
POLI 442	International Relations of Ethnic Conflict.	3
POLI 450	Peacebuilding.	3

Geography

18 credits from:

Expand allContract all

Course	Title	Credits
ENVR 202	The Evolving Earth.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 301	Geography of Nunavut.	3
GEOG 311	Economic Geography.	3
GEOG 331	Urban Social Geography.	3

Note: In consultation with the Program Adviser, students may choose their Geography courses from those that comprise the B.A. Minor Concentration Geography program.

Electives (6 credits)

Teaching English as a Second Language (TESL) (B.Ed.) - Elementary and Secondary: Teaching Greek Language & Culture (120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

This program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French

Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120-credit program) for a total of 150 credits.

The program includes studies in language and language learning from linguistic, literary, social, cultural, and psychological perspectives, accompanied by field experiences. It prepares students to teach English as a Second Language (ESL) at both the elementary school level (including regular and intensive ESL) and the secondary school level (including regular ESL and ESLA - English Second Language Arts), and provides a base for adult and other ESL teaching. This program also prepares students to teach in Hellenic school settings. Students are encouraged to participate in a 'study away' semester in Greece.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Department is committed to supporting students in the development and creation of their individual professional portfolios throughout their program.

Additional Entrance and Language Requirements

All applicants must pass the English Language Proficiency Test (ELPT) set by the Department of Integrated Studies in Education and pass a Greek language proficiency test set by the Department of Classical Studies prior to being offered admission. Eligible applicants will be contacted by email with information on how to register for these two tests.

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in the subject field, as well as to explore areas that are not normally taken as academic subjects within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. In Quebec, ESL is taught within the French school system. Thus, proficiency in French is an asset for student teaching placements, and is a requirement for employment in Quebec.

Other language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish, ISLA Arabic; ITAL Italian; RUSS Russian/Polish) are also good choices for the Freshman year.

Expand allContract all

Course	Title	Credits
EDEE 325	Children's Literature.	3
EDEM 220	Contemporary Issues in Education.	3

ENGL 201	Survey of English Literature 2.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
LING 200	Introduction to the Study of Language.	3
LING 201	Introduction to Linguistics.	3

Required Courses (90 credits)

Expand allContract all

Course	Title	Credits
CLAS 336	Modern Greek Literature. ¹	3
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDES 350	Classroom Practices.	3
EDFE 209	First Field Experience (TESL).	2
EDFE 255	Second Field Experience (TESL). ²	3
EDFE 359	Third Field Experience (TESL). ²	8
EDFE 459	Fourth Field Experience (TESL). ²	7
EDPE 300	Educational Psychology.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3
EDSL 210	First Professional Seminar.	1
EDSL 215	Communication in Education for TESL in Quebec.	3
EDSL 254	Second Professional Seminar (TESL).	1
EDSL 300	Foundations of L2 Education.	3
EDSL 304	Sociolinguistics and L2 Education.	3
EDSL 305	L2 Learning: Classroom Settings.	3
EDSL 311	Pedagogical Grammar.	3
EDSL 315	Third Year Professional Seminar.	2
EDSL 330	Literacy 1:Teaching Reading in ESL.	3
EDSL 332	Literacy 2: Teaching Writing in ESL.	3
EDSL 334	Teaching Oral Skills in ESL.	3
EDSL 350	Essentials of English Grammar.	3
EDSL 412	Assessment in TESL.	3
EDSL 415	Fourth Professional Seminar.	3
EDSL 447	Methods in TESL 1.	3
EDSL 458	Methods in TESL 2.	3

- ¹ Note: Offered every 3rd year (alternating with CLAS 333, CLAS 335 Modern Greek Culture and Society.).
² Note: At least one of these Field Experiences must be completed in a Hellenic school.

Complementary Courses (30 credits)

30 credits selected as described below:

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

3 credits from:

Expand allContract all

Course	Title	Credits
EDEA 332	Art Curriculum and Instruction - Elementary.	3
EDEA 342	Curriculum and Instruction in Drama Education.	3
EDEA 345	Music Curriculum and Instruction for Generalists.	3
EDKP 332	Physical Education Curriculum and Instruction.	3

3 credits from:

Expand allContract all

Course	Title	Credits
LING 200	Introduction to the Study of Language.	3
LING 201	Introduction to Linguistics.	3

¹ 3 credits from FRSL

or

Expand allContract all

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 239	Stylistique comparée.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3

¹ selected according to individual student's French proficiency level

TESL and Greek Language & Culture (18 credits)

12-15 credits of Greek Language and Culture from (with adviser's approval):

Expand allContract all

Course	Title	Credits
CLAS 230D1	Introductory Modern Greek.	3
CLAS 230D2	Introductory Modern Greek.	3
CLAS 331	Intermediate Modern Greek 1.	3
CLAS 332	Intermediate Modern Greek 2.	3
CLAS 335	Modern Greek Culture and Society.	3
CLAS 498	Independent Research.	3
HIST 349	Greece: From Ottoman to the European Union.	3
HIST 368	Greek History: Classical Period.	3

3-6 credits from (with adviser's approval, other courses may be considered):

Course	Title	Credits
ARTH 314	The Medieval City.	3
CLAS 203	Greek Mythology.	3
CLAS 301	Ancient Greek Literature and Society.	3
CLAS 404	Classical Tradition.	3
HIST 205	Ancient Mediterranean History.	3
HIST 369	Greek History: Early Greece.	3
PHIL 345	Greek Political Theory.	3
PHIL 353	The Presocratic Philosophers.	3
PHIL 355	Aristotle.	3
PHIL 452	Later Greek Philosophy.	3
PHIL 454	Ancient Moral Theory.	3
POLI 333	Western Political Theory 1.	3

Teaching English as a Second Language-TESL Elementary and Secondary (B.Ed.)(120 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

The Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Foundation courses (in addition to the 120-credit program) for a total of 150 credits.

The program includes studies in language and language learning from linguistic, literary, social, cultural, and psychological perspectives, accompanied by field experiences. It prepares students to teach English as a Second Language (ESL) at both the elementary school level (including regular and intensive ESL) and the secondary school

level (including regular ESL and ESLA - English Second Language Arts), and provides a base for adult and other ESL teaching.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

The Department is committed to supporting students in the development and creation of their individual professional portfolios throughout their program.

Foundation Program

Students normally complete 30 credits in their Foundation (U0) year.

The Foundation year is the time to take introductory-level courses in the subject field, as well as to explore areas that are not normally taken as academic subjects within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. In Quebec, ESL is taught within the French school system. Thus, proficiency in French is an asset for student teaching placements, and is a requirement for employment in Quebec.

Other language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish, ISLA Arabic; ITAL Italian; RUSS Russian/Polish) are also good choices for the Foundation year.

Expand allContract all

Course	Title	Credits
EDEC 203	Communication in Education.	3
EDEE 325	Children's Literature.	3
EDEM 220	Contemporary Issues in Education.	3
ENGL 201	Survey of English Literature 2.	3
FRSL 101	Beginners French 1.	3
FRSL 102	Beginners French 2.	3
FRSL 207D1	Elementary French 01.	3
FRSL 207D2	Elementary French 01.	3
FRSL 211D1	Oral and Written French 1.	3
FRSL 211D2	Oral and Written French 1.	3
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 211	Introduction to Indigenous Languages.	3
LING 260	Meaning in Language.	3

Required Courses (90 credits)

Expand allContract all

Course	Title	Credits
EDEC 215	English Exam for Teacher Certification.	0
EDEC 233	Indigenous Education.	3
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDES 350	Classroom Practices.	3
EDES 361	Teaching Secondary English 1.	3
EDFE 209	First Field Experience (TESL).	2
EDFE 255	Second Field Experience (TESL).	3
EDFE 359	Third Field Experience (TESL).	8
EDFE 459	Fourth Field Experience (TESL).	7
EDPE 300	Educational Psychology.	3
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3
EDSL 210	First Professional Seminar.	1
EDSL 215	Communication in Education for TESL in Quebec.	3
EDSL 254	Second Professional Seminar (TESL).	1
EDSL 300	Foundations of L2 Education.	3
EDSL 304	Sociolinguistics and L2 Education.	3
EDSL 305	L2 Learning: Classroom Settings.	3
EDSL 311	Pedagogical Grammar.	3
EDSL 315	Third Year Professional Seminar.	2
EDSL 330	Literacy 1:Teaching Reading in ESL.	3
EDSL 332	Literacy 2: Teaching Writing in ESL.	3
EDSL 334	Teaching Oral Skills in ESL.	3
EDSL 350	Essentials of English Grammar.	3
EDSL 412	Assessment in TESL.	3
EDSL 415	Fourth Professional Seminar.	3
EDSL 447	Methods in TESL 1.	3
EDSL 458	Methods in TESL 2.	3

Complementary Courses (24 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

3 credits from:

Expand allContract all

Course	Title	Credits
EDEA 332	Art Curriculum and Instruction - Elementary.	3
EDEA 342	Curriculum and Instruction in Drama Education.	3

EDEA 345	Music Curriculum and Instruction for Generalists.	3	Language Teaching, Inclusive Education, or Indigenous Language and Literacy Education taken concurrently. Credit may also be transferred from the Certificate in Education for First Nations and Inuit, which is normally completed before the B.Ed. Students completing the Bachelor of Education for Certified Teachers following the Certificate in Education for First Nations and Inuit will have accumulated a total of 120 credits, 60 for the certificate and a further 60 for the B.Ed.
EDKP 332	Physical Education Curriculum and Instruction.	3	

3 credits from:

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 211	Introduction to Indigenous Languages.	3
LING 260	Meaning in Language.	3

¹

3 credits from:

FRSL

OR:

Expand allContract all

Course	Title	Credits
FREN 201	Le français littéraire (français langue seconde).	3
FREN 203	Analyse de textes (français langue seconde) .	3
FREN 239	Stylistique comparée.	3
FREN 245	Grammaire normative.	3
FREN 250	Littérature française avant 1800.	3
FREN 251	Littérature française depuis 1800.	3
FREN 252	Littérature québécoise.	3

¹ selected according to individual student's French proficiency level

6-9 credits of English (ENGL) courses

3-6 credits of other complementary courses including

Foreign language courses (0-6 credits)

Other Complementary courses (0-6 credits)

Electives Courses(6 credits)

6 credits

Elementary Education: Indigenous Education (B.Ed. for Certified Teachers) (90 credits)

Offered by: Faculty of Education

Program credit weight: 90 credits

Program Description

This 90-credit program is designed for teachers who are already certified to teach in elementary schools and who wish to earn a Bachelor of Education degree. Normally, a minimum of 60 credits must be taken in the program, and no more than 30 credits may be transferred from other institutions. Credits may be transferred from programs leading to the certificates in Educational Technology, Second

Language Teaching, Inclusive Education, or Indigenous Language and Literacy Education taken concurrently. Credit may also be transferred from the Certificate in Education for First Nations and Inuit, which is normally completed before the B.Ed. Students completing the Bachelor of Education for Certified Teachers following the Certificate in Education for First Nations and Inuit will have accumulated a total of 120 credits, 60 for the certificate and a further 60 for the B.Ed.

The Certificate in Indigenous Language and Literacy Education, the Certificate in Middle School Education in Indigenous Communities, or the Certificate in First Nations and Inuit Educational Leadership may be taken concurrently and completed within the Bachelor of Education for Certified Teachers if the required B.Ed. profile is fulfilled.

This program does not lead to further certification.

Complementary Courses

Candidates enrolled in the program complete 90 credits within the following general pattern.

Academic Concentration (30 credits)

30 credits in five (5) subject areas relevant to elementary education in a 12-9-3-3-3 pattern (i.e., 12 credits in one subject, 9 credits in a second subject, and 3 credits in each of three (3) other subject areas), or 30 academic credits in three subject areas in a 15-9-6 pattern.

Note: Subject areas relevant to elementary education, in broad terms, are the Arts (Art, Music and Drama), English, French, Science, Mathematics, Physical Education, Moral and Religious Education, Social Studies, Educational Technology, or an Indigenous language.

Cultural Development (15 credits)

15 credits of courses that will enhance the candidate's cultural development. These are to be chosen in consultation with the Director of Programs in First Nations and Inuit Education.

Education Concentration (30 credits)

30 credits. Normally the Education concentration is completed within the Certificate in Education for First Nations and Inuit.

Electives (15 credits)

15 credits selected by the candidate after consultation with the Director of Programs in First Nations and Inuit Education.

Education for First Nations and Inuit (Cert.) (60 credits)

Offered by: Faculty of Education

Program credit weight: 60 credits

Program Description

This 60-credit program provides an opportunity for Algonquin, Cree, Inuit, Mi'gmaq, Mohawk, and Naskapi people to become qualified as teachers. It is offered on a part-time basis in Indigenous communities throughout Quebec in collaboration with, for example, the Cree School Board, the Kativik Ilisarniliriniq and various Mi'gmaq, Mohawk, Algonquin and education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation certification to teach at the elementary school level in Indigenous schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education - Kindergarten and Elementary Education - First Nations and Inuit Studies or Bachelor of Education for Certified Teachers program and consult the Program Adviser to determine Advanced Standing.

Time Limit

The time limit for completion of the 60-credit Certificate in Education for First Nations and Inuit is 12 years. The University reserves the right to request that a student retake a course or courses after a five-year period if it is felt that too long a break has occurred in the ongoing nature of the training.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
EDEC 201	First Year Professional Seminar.	1
EDEC 203	Communication in Education.	3
EDEC 253	Second Professional Seminar (Kindergarten/ Elementary).	1
EDEM 502	Indigenous Family Dynamics and Supporting Institutions.	3
EDFE 200	First Field Experience (K/Elem and Secondary).	2
EDFE 256	Second Field Experience (Kindergarten/ Elementary).	3
EDFE 306	Third Field Experience (Kindergarten/ Elementary).	8
EDPE 300	Educational Psychology.	3
EDPI 341	Instruction in Inclusive Schools.	3

Complementary Courses (33 credits)

6 credits from the following language courses according to language group and fluency:

Algonquin

Expand allContract all

Course	Title	Credits
EDEC 270	Algonquin Heritage Language 1.	3
EDEC 271	Algonquin Heritage Language 2.	3
EDEC 272	Algonquin Language 1.	3
EDEC 273	Algonquin Language 2.	3

Cree

Expand allContract all

Course	Title	Credits
EDEC 241	Cree Language 1.	3
EDEC 242	Cree Language 2.	3

Inuktitut

Expand allContract all

Course	Title	Credits
EDEC 289	Inuktitut Orthography and Grammar.	3
EDEC 342	Intermediate Indigenous Language.	3
EDEC 344	Advanced Indigenous Language.	3

Mi'gmaw

Expand allContract all

Course	Title	Credits
EDEC 237	Mi'gmaw Heritage Language 1.	3
EDEC 238	Mi'gmaw Heritage Language 2.	3
EDEC 239	Mi'gmaw Language 1.	3
EDEC 240	Mi'gmaw Language 2.	3

Mohawk

Expand allContract all

Course	Title	Credits
EDEC 275	Mohawk Heritage Language 1.	3
EDEC 276	Mohawk Heritage Language 2.	3
EDEC 277	Mohawk Language 1.	3
EDEC 278	Mohawk Language 2.	3

Naskapi

Expand allContract all

Course	Title	Credits
EDEC 227	Naskapi Language 1.	3
EDEC 228	Naskapi Language 2.	3

27 credits from one of the three following Stream course lists:

Stream A: Generalist

Stream B: Physical Education

Stream C: Culture and Language

In order to ensure appropriate choices, students select from the list of Complementary Courses in consultation with the Program Adviser.

Stream A: Generalist

27 credits from the following list:

Course	Title	Credits
EDEA 242	Cultural Skills 1.	3
EDEC 243	Teaching: Multigrade Classrooms.	3
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDEE 223	Language Arts.	3
EDEE 230	Elementary School Mathematics 1.	3
EDEE 245	Orientation to Education.	3
EDEE 248	Reading and Writing in First Nations and Inuit Languages	3

EDEE 253	Kindergarten Classroom Pedagogy.	3	EDEE 230	Elementary School Mathematics 1.	3
EDEE 270	Elementary School Science.	3	EDEE 245	Orientation to Education.	3
EDEE 273	Elementary School Science 2.	3	EDEE 248	Reading and Writing in First Nations and Inuit Languages	3
EDEE 280	Geography, History and Citizenship Education.	3	EDEE 270	Elementary School Science.	3
EDEE 283	Social Studies Pedagogy.	3	EDEE 283	Social Studies Pedagogy.	3
EDEE 325	Children's Literature.	3	EDEE 332	Teaching Elementary Mathematics 2.	3
EDEE 332	Teaching Elementary Mathematics 2.	3	EDEE 347	Grammar and Composition 1.	3
EDEE 353	Third Year Professional Seminar (Kindergarten/ Elementary).	3	EDEE 348	Grammar and Composition 2.	3
EDEE 355	Classroom-based Evaluation.	3	EDEE 353	Third Year Professional Seminar (Kindergarten/ Elementary).	3
			EDEE 355	Classroom-based Evaluation.	3
			EDEE 370	Traditional Indigenous Life Skills.	3
			EDEE 371	Integrating Indigenous Storytelling and Creative Writing.	3
			EDEE 373	Traditional Healing.	3
			EDEE 383	Oral and Family History.	3
			EDKP 241	Indigenous Physical Activities.	3

Stream B: Physical Education

21 credits from the following list:

Expand allContract all

Course	Title	Credits
EDEC 243	Teaching: Multigrade Classrooms.	3
EDEC 262	Media, Technology and Education.	3
EDEE 223	Language Arts.	3
EDEE 245	Orientation to Education.	3
EDEE 353	Third Year Professional Seminar (Kindergarten/ Elementary).	3
EDKP 204	Health Education.	3
EDKP 241	Indigenous Physical Activities.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 307	Evaluation in Physical Education.	3
EDKP 342	Physical Education Methods.	3
EDKP 494	Physical Education Curriculum Development.	3

and 6 credits from the following Physical Education courses:

Expand allContract all

Course	Title	Credits
EDKP 214	Basketball.	2
EDKP 217	Track and Field.	3
EDKP 218	Volleyball.	2
EDKP 223	Games 1: Elementary Physical Education .	3

Stream C: Culture and Language

27 credits from the following list:

Expand allContract all

Course	Title	Credits
EDEA 242	Cultural Skills 1.	3
EDEA 243	Cultural Skills 2.	3
EDEA 244	Cultural Skills - Fall.	3
EDEA 245	Cultural Skills - Winter.	3
EDEA 246	Cultural Skills - Spring.	3
EDEA 247	Cultural Skills - Summer.	3
EDEC 342	Intermediate Indigenous Language.	3
EDEC 344	Advanced Indigenous Language.	3

First Nations and Inuit Student Personnel Services (Cert.) (30 credits)

Offered by: Faculty of Education

Program credit weight: 30 credits

Program Description

This program is offered by the Department of Educational and Counselling Psychology through Office First Nations and Inuit Education.

This 30-credit program is designed to provide Indigenous school personnel advisers with a training program that will enable them to learn about the principles and practice of personnel services as generally applied in educational settings, to help Indigenous student personnel advisers develop their personal skills, and to modify or adapt their services and the content to best suit the cultural and educational needs of Indigenous students; to encourage Indigenous student personnel advisers to take leadership in developing educational programs that address the social needs of their communities, to upgrade their academic qualifications and professional development; and to develop and make available, in English and in the languages of instruction, collections of professional and scholarly knowledge about students' needs, and services in Indigenous communities.

Bearers of this certificate will be qualified to work as educational and school personnel advisers within the employ of an Indigenous educational authority.

Required Courses (21 credits)

Course	Title	Credits
EDPC 201	Introduction to Student Advising.	3
EDPC 202	Helping Skills Practicum 1.	3

EDPC 203	Helping Skills Practicum 2.	3	EDPE 377	Adolescence and Education.	3
EDPC 205	Career/Occupational Development.	3	EDSL 305	L2 Learning: Classroom Settings.	3
EDPC 208	Native Families' Dynamics.	3			
EDPC 209	Basic Crisis Intervention Skills.	3			
EDPC 210	Field Experience.	3			

Complementary Courses (9 credits)

9 credits selected from the list below or any other suitable course approved by the Program Adviser.

Registration in EDEM 502 Indigenous Family Dynamics and Supporting Institutions., EDKP 204 Health Education., or any other courses offered by departments other than Educational and Counselling Psychology, or in other programs of this Department is dependent on availability (e.g., through a concurrently offered program) or through an arrangement made with that department or program. The Program Adviser will attempt to make these contacts whenever required.

Expand allContract all

Course	Title	Credits
EDEM 502	Indigenous Family Dynamics and Supporting Institutions.	3
EDKP 204	Health Education.	3
EDPI 211	Social and Emotional Development.	3

Middle School Education in Indigenous Communities (Cert.) (30 credits)

Offered by: Faculty of Education

Program credit weight: 30 credits

Program Description

This 30-credit program focuses on developing the particular skills and abilities required of the Indigenous teacher in the middle school of his/her community. It does not lead to provincial certification. Rather, it prepares Indigenous teachers, who are bilingual or have some knowledge of their Indigenous language and who have already established themselves as teachers, to teach students at this level in ways that are developmentally and culturally appropriate. The program focuses on the particular psychological, emotional, and social needs of Aboriginal adolescents and the teacher's role in facilitating the transition between elementary and high school.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for the B.Ed. are fulfilled.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDEC 245	Middle School Teaching.	3
EDEC 246	Middle School Curriculum.	3
EDFE 210	Middle School Practicum.	3

Major Subject Area (6 credits)

6 credits in the major subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Minor Subject Area (6 credits)

6 credits in the minor subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Education Courses (3 credits)

3 credits from the list below or from other courses as approved by the Director of Programs in First Nations and Inuit Education.

Expand allContract all

Course	Title	Credits
EDEA 241	Basic Art Media for Classroom.	3
EDEC 220	Curriculum Development.	3
EDEC 243	Teaching: Multigrade Classrooms.	3
EDEC 591	Cultural Values and Socialization.	3
EDEE 444	First Nations and Inuit Curriculum.	3
EDKP 241	Indigenous Physical Activities.	3
EDPT 200	Integrating Educational Technology in Classrooms.	3
EDSL 247	Second Language Education in Indigenous Communities.	3
EDSL 305	L2 Learning: Classroom Settings.	3

First Nations and Inuit Educational Leadership (Cert.) (30 credits)

Offered by: Faculty of Education

Program credit weight: 30 credits

Program Description

The 30 credit Certificate in First Nations and Inuit Educational Leadership will focus on the following 5 objectives:

1. developing the core competencies of educational leaders;
2. fostering a self-reflective leader able to partner with parents to create community outreach;
3. cultivating awareness of the holistic learning and developmental cycles of the child and the role of the educational leader in enhancing that development;
4. maintaining the inter-connectedness and continuity of community and cultural values and aspirations within the structure of the administration of the school and other educational milieu; and
5. understanding and supporting the pedagogical objectives and the administrative framework of the educational context and system.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
EDEC 203	Communication in Education.	3
EDEC 222	Personnel Management and Group Skills.	3
EDEC 311	Resource Management.	6
EDEC 312	Practicum in Educational Leadership.	3
EDEM 502	Indigenous Family Dynamics and Supporting Institutions.	3

Complementary Courses (12 credits)

12 credits from the list below or any other course approved by the Director of Programs in First Nations and Inuit Education.

Expand allContract all

Course	Title	Credits
EDEC 230	Conflict Resolution.	3
EDEC 233	Indigenous Education.	3
EDEC 244	Issues in First Nations and Inuit Education	3
EDEC 262	Media, Technology and Education.	3
EDEE 245	Orientation to Education.	3

Indigenous Language and Literacy Education (Cert.) (30 credits)

Offered by: Faculty of Education

Program credit weight: 30 credits

Program Description

This 30-credit program is designed for Algonquin, Cree, Inuit, Mi'kmaq, and Kanienkehaka (Mohawk) students who wish to gain a deeper understanding of their Indigenous language, especially in its written form. It is aimed mainly at those who will be teaching their Indigenous language.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for B.Ed. are fulfilled.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDEC 342	Intermediate Indigenous Language.	3
EDEC 344	Advanced Indigenous Language.	3

Complementary Courses (18 credits)

18 credits selected as described below.

Language Courses

6 credits from the following language courses (or other courses as approved by the Director of Programs in First Nations and Inuit Education) including a beginning course (3 credits) in the Indigenous language as a first language (e.g., EDEC 241 Cree Language 1.) and a second-level course (3 credits) in the same language (e.g., EDEC 242 Cree Language 2.).

Expand allContract all

Course	Title	Credits
EDEC 227	Naskapi Language 1.	3
EDEC 228	Naskapi Language 2.	3
EDEC 239	Mi'gmaw Language 1.	3
EDEC 240	Mi'gmaw Language 2.	3
EDEC 241	Cree Language 1.	3
EDEC 242	Cree Language 2.	3
EDEC 272	Algonquin Language 1.	3
EDEC 273	Algonquin Language 2.	3
EDEC 277	Mohawk Language 1.	3
EDEC 278	Mohawk Language 2.	3
EDEC 289	Inuktitut Orthography and Grammar.	3

Education Courses

12 credits from the list below:

Expand allContract all

Course	Title	Credits
EDEA 242	Cultural Skills 1.	3
EDEC 220	Curriculum Development.	3
EDEC 403	The Dialects of Inuktitut.	3
EDEE 223	Language Arts.	3
EDEE 240	Use and Adaptation of Curricula.	3
EDEE 243	Reading Methods for First Nations/Inuit Languages	3
EDEE 248	Reading and Writing in First Nations and Inuit Languages	3
EDEE 347	Grammar and Composition 1.	3
EDEE 348	Grammar and Composition 2.	3
EDEE 373	Traditional Healing.	3
EDEE 383	Oral and Family History.	3
EDES 365	Course EDES 365 Not Found	3
EDPE 304	Measurement and Evaluation.	3

Electives (6 credits)

6 credits of suitable courses approved by the Director of Programs in First Nations and Inuit Education.

Inclusive Education (Cert.) (30 credits)

Offered by: Faculty of Education

Program credit weight: 30 credits

Program Description

The Certificate in Inclusive Education is intended for regular class teachers, special educators, adult educators, and other educational personnel. The program provides a sequence of courses that will ensure a sound foundation for adapting curriculum and instruction for students with varying abilities, learning styles, and special needs. It strives to meet the needs of educators who must adapt to their changing roles in contemporary schools:

1. for general educators, to educate students with diverse needs in their heterogeneous classrooms, and
2. for special educators, to collaborate with other professionals working with exceptional students.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDPI 309	Diverse Learners.	3
EDPI 341	Instruction in Inclusive Schools.	3
EDPI 344	Assessment for Instruction.	3
EDPI 440	Managing the Inclusive Classroom.	3
EDPI 441	Students with Behaviour Difficulties.	3
EDPI 442	Students with Learning Difficulties.	3
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 543	Family, School and Community.	3

Complementary Courses (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
EDPE 496	Individual Reading Course.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 539	Field Work 1.	3
EDPI 540	Field Work 2.	3

Other courses may be approved by the Program Director.

Further information may be obtained by emailing ecpundergrad.education@mcgill.ca. Courses listed above are not necessarily offered on a regular basis. Check Minerva for course availability.

Physical and Health Education (B.Ed.) (120 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Degree: Bachelor of Education

Program credit weight: 120 credits

Program Description

The Bachelor of Education (B.Ed.) - Physical and Health Education is a 120-credit program leading to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credit program) for a total of 150 credits.

The Physical and Health Education program prepares students to teach physical and health education at the elementary and secondary levels. In a unique structure interweaving academic studies, professional course work, and teaching practices over the course of study, students are rapidly given the opportunity to assume a teaching role; the extent of teaching involvement and expectations progressively building on additional academic and professional courses.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Ministère de l'Éducation, et L'Enseignement supérieur (MEES). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Freshman students are required to complete 30 credits of introductory (100- or 200-level) courses. Students will not be granted permission to take first-year (U1) courses if the credits from the Freshman year have not been obtained. For students considering a second teachable subject, the following areas are recommended: history, geography, English, or mathematics.

From the "Required Courses" list, Freshman students take the 0-credit course EDEC 215 English Exam for Teacher Certification. English Language Requirement. In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses.

Expand allContract all

Course	Title	Credits
EDEC 202	Effective Communication.	3
EDEM 220	Contemporary Issues in Education.	3
WCOM 250	Research Essay and Rhetoric.	3

Required Courses (102 credits)

Expand allContract all

Course	Title	Credits
EDEC 215	English Exam for Teacher Certification.	0
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 260	Philosophical Foundations.	3
EDFE 246	First Field Experience (Physical Education).	3
EDFE 373	Second Field Experience (Physical Education).	3
EDFE 380	Third Field Experience (Physical Education).	7
EDFE 480	Fourth Field Experience (Physical Education).	7

Course	Title	Credits
EDKP 100	Introduction to Physical and Health Education in Quebec.	3
EDKP 204	Health Education.	3
EDKP 208	Biomechanics and Motor Learning.	3
EDKP 217	Track and Field.	3
EDKP 303	Seminars in Physical and Health Education	1
EDKP 223	Games 1: Elementary Physical Education .	3
EDKP 225	Games 2: Secondary Physical Education.	3
EDKP 232	Health-Related Fitness.	3
EDKP 235	Non-Traditional Physical Activities .	3
EDKP 237	Outdoor Education.	3
EDKP 253	Movement Education.	3
EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 293	Anatomy and Physiology.	3
EDKP 307	Evaluation in Physical Education.	3
EDKP 330	Physical Activity and Public Health.	3
EDKP 342	Physical Education Methods.	3
EDKP 391	Physiology in Sport and Exercise.	3
EDKP 394	Historical Perspectives.	3
EDKP 396	Adapted Physical Activity.	3
EDKP 442	Physical Education Pedagogy.	3
EDKP 443	Research Methods.	3
EDKP 448	Exercise and Health Psychology.	3
EDKP 494	Physical Education Curriculum Development.	3
EDKP 498	Sport Psychology.	3
EDPE 300	Educational Psychology.	3
EDEC 262	Media, Technology and Education.	3
EDPT 200	Integrating Educational Technology in Classrooms.	3
EDPT 204	Creating and Using Media for Learning.	3

Electives (12 credits)

12 credits chosen from any of the University's course offerings to contribute to the student's academic proficiency and professional preparation. Students are encouraged to choose as they wish. However, beware that some courses have restrictions, pre-requisites and/or enrollment limitations.

Kinesiology (B.Sc.) (90 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Degree: Bachelor of Science (Kinesiology)

Program credit weight: 90 credits

Program Description

The B.Sc.(Kinesiology) is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The focus of the Kinesiology program is a comprehensive understanding of human movement. Kinesiology is a multidisciplinary field viewing human movement from social, historical, psychological, or biological perspectives. The program provides students with a breadth of theoretical knowledge as well as an opportunity to explore related areas in greater depth, including minor programs available elsewhere within the University.

An Honours program is available for particularly strong students. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

Complementary Courses (6 credits)

6 credits selected as specified below:

Multicultural Education

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 233	Indigenous Education.	3
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Media, Technology, Computers and Education

3 credits from:

Expand allContract all

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
CHEM 110	General Chemistry 1.	4

In consultation with a program adviser, one of the following Fall term MATH courses:

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3
MATH 150	Calculus A.	4

In consultation with a program adviser, one of the following Fall term PHYS courses:

Expand allContract all

Course	Title	Credits
PHYS 101	Introductory Physics - Mechanics.	4
PHYS 131	Mechanics and Waves.	4

Winter term BIOL and CHEM courses:

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 120	General Chemistry 2.	4

One of the following Winter term MATH courses:

Expand allContract all

Course	Title	Credits
MATH 141	Calculus 2.	4
MATH 151	Calculus B.	4

One of the following Winter term PHYS courses:

Expand allContract all

Course	Title	Credits
PHYS 102	Introductory Physics - Electromagnetism.	4
PHYS 142	Electromagnetism and Optics.	4

Course	Title	Credits
ANAT 315	Clinical Human Musculoskeletal Anatomy.	3
ANAT 316	Clinical Human Visceral Anatomy.	3
EDKP 206	Biomechanics of Human Movement.	3
EDKP 250	Introductory Principles in Applied Kinesiology.	3
EDKP 261	Motor Development.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 330	Physical Activity and Public Health.	3
EDKP 350	Physical Fitness Evaluation Methods.	3
EDKP 395	Exercise Physiology.	3
EDKP 396	Adapted Physical Activity.	3
EDKP 443	Research Methods.	3
EDKP 447	Motor Control.	3
EDKP 448	Exercise and Health Psychology.	3
EDKP 450	Advanced Principles in Applied Kinesiology.	3
EDKP 498	Sport Psychology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

Complementary Courses (15-24 credits)

3 credits from Statistics:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
EDPE 375	Introductory Statistics.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

3 credits from Psychosocial:

Expand allContract all

Course	Title	Credits
EDKP 394	Historical Perspectives.	3
EDKP 405	Sport in Society.	3
EDKP 548	Applied Exercise Psychology.	3

0-6 credits from Internships/Practicums:

Expand allContract all

Course	Title	Credits
EDKP 301	Kinesiology Internship 1.	3
EDKP 302	Kinesiology Clinic Internship 1.	3
EDKP 401	Kinesiology Internship 2.	3
EDKP 402	Kinesiology Clinic Internship 2.	3
EDKP 451	Personal Trainer Practicum.	3
EDKP 453	Research Practicum in Kinesiology.	3

Required Courses (51 credits)

Expand allContract all

3 credits from Biomechanics/Motor Learning:

Expand all Contract all

Course	Title	Credits
EDKP 444	Ergonomics.	3
EDKP 446	Physical Activity and Ageing.	3
EDKP 566	Advanced Biomechanics	3
EDKP 492	Talent Identification in Sports	3

6 credits from Exercise Physiology:

Expand all Contract all

Course	Title	Credits
EDKP 445	Exercise Metabolism.	3
EDKP 449	Neuromuscular and Inflammatory Pathophysiology.	3
EDKP 485	Cardiopulmonary Exercise Pathophysiology.	3
EDKP 495	Scientific Principles of Training.	3

Select 0-3 credits from Nutrition:

Expand all Contract all

Course	Title	Credits
NUTR 503	Nutrition and Exercise.	3

Elective Courses (15-24 credits)

15-24 credits of any 200-500 level courses; in consultation with the Student Adviser, a Minor in another faculty may be possible.

Kinesiology - Honours (B.Sc.) (90 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Degree: Bachelor of Science (Kinesiology)

Program credit weight: 90 credits

Program Description

The Honours version of the B.Sc.(Kinesiology) is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc. (Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The Kinesiology - Honours program offers particularly strong students aspiring to continue their studies at the graduate level the opportunity to pursue more advanced coursework. The program requires the completion of a research project under the direction of a professor during the final year. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
CHEM 110	General Chemistry 1.	4

In consultation with a program adviser, one of the following Fall term MATH courses:

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3
MATH 150	Calculus A.	4

In consultation with a program adviser, one of the following Fall term PHYS courses:

Course	Title	Credits
PHYS 101	Introductory Physics - Mechanics.	4
PHYS 131	Mechanics and Waves.	4

Winter term BIOL and CHEM courses:

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 120	General Chemistry 2.	4

One of the following Winter term MATH courses:

Expand all Contract all

Course	Title	Credits	Course	Title	Credits			
MATH 141	Calculus 2.	4	EDKP 394	Historical Perspectives.	3			
MATH 151	Calculus B.	4	EDKP 405	Sport in Society.	3			
One of the following Winter term PHYS courses:								
Expand allContract all								
Course	Title	Credits	0-6 credits from Internships/Practicums:					
PHYS 102	Introductory Physics - Electromagnetism.	4	Expand allContract all					
PHYS 142	Electromagnetism and Optics.	4	Course	Title	Credits			
Required Courses (60 credits)								
Expand allContract all								
Course	Title	Credits	EDKP 301 Kinesiology Internship 1.					
ANAT 315	Clinical Human Musculoskeletal Anatomy.	3	EDKP 401 Kinesiology Internship 2.					
ANAT 316	Clinical Human Visceral Anatomy .	3	EDKP 451 Personal Trainer Practicum.					
EDKP 206	Biomechanics of Human Movement.	3	EDKP 453 Research Practicum in Kinesiology.					
EDKP 250	Introductory Principles in Applied Kinesiology.	3	3 credits from Biomechanics/Motor Learning:					
EDKP 261	Motor Development.	3	Expand allContract all					
EDKP 292	Nutrition and Wellness.	3	Course	Title	Credits			
EDKP 330	Physical Activity and Public Health.	3	EDKP 444 Ergonomics.		3			
EDKP 350	Physical Fitness Evaluation Methods.	3	EDKP 446 Physical Activity and Ageing.		3			
EDKP 395	Exercise Physiology.	3	EDKP 566 Advanced Biomechanics		3			
EDKP 396	Adapted Physical Activity.	3	POTH 434 Musculoskeletal Biomechanics.		3			
EDKP 443	Research Methods.	3	6 credits from Exercise Physiology:					
EDKP 447	Motor Control.	3	Expand allContract all					
EDKP 448	Exercise and Health Psychology.	3	Course	Title	Credits			
EDKP 450	Advanced Principles in Applied Kinesiology.	3	EDKP 445 Exercise Metabolism.		3			
EDKP 454	Honours Research Practicum.	3	EDKP 449 Neuromuscular and Inflammatory Pathophysiology.		3			
EDKP 498	Sport Psychology.	3	EDKP 485 Cardiopulmonary Exercise Pathophysiology.		3			
EDKP 499	Undergraduate Honours Research Project.	6	EDKP 495 Scientific Principles of Training.		3			
PHGY 209	Mammalian Physiology 1.	3	PHGY 314 Integrative Neuroscience.		3			
PHGY 210	Mammalian Physiology 2.	3	Select 0-3 credits from Nutrition:					
Expand allContract all								
Course	Title	Credits	Expand allContract all					
NUTR 344	Clinical Nutrition 1.	4	Course	Title	Credits			
NUTR 503	Nutrition and Exercise.	3	Elective Courses					
6-15 credits of any 200-level or higher courses, chosen in consultation with the Student Adviser.								
Architecture (B.Sc.) (126 credits)								
Offered by: Architecture (Faculty of Engineering)								
Degree: Bachelor of Science (Architecture)								
Program credit weight: 126 credits								

Complementary Courses (15-24 credits)

3 credits from Statistics:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

3 credits from Psychosocial:

Expand allContract all

Elective Courses

6-15 credits of any 200-level or higher courses, chosen in consultation with the Student Adviser.

Architecture (B.Sc.) (126 credits)

Offered by: Architecture (Faculty of Engineering)

Degree: Bachelor of Science (Architecture)

Program credit weight: 126 credits

Program Description

Program credit weight for CEGEP students: 98 credits

The B.Sc.(Arch.) program provides conceptual, technical, and procedural foundations for the professional M.Arch. program, which is accredited by the Canadian Architectural Certification Board and recognized as accredited by the National Council of Architectural Registration Boards in the US. Students entering the B.Sc.(Arch.) program complete first-year courses in general studies (including sciences, humanities, and social sciences), for which individuals entering with the Québec Diploma of Collegial Studies in Arts and Science or Pure and Applied Science (or equivalent) are generally granted transfer credits. All students then complete six terms of immersion in architecture, centered in studio courses exploring principles of design, norms of representation, cultures of construction, and the human experience of architecture. Studio-based learning is complemented by lecture courses on foundational knowledge. Complementary courses provide further opportunities to learn about how culture intersects with technology in the work of architecture, and students select electives to customize their learning experience.

Required Year 0 (Freshman) Courses (28 credits)

Generally, students admitted to the Architecture program from Quebec CEGEPs are granted transfer credit for the Year 0 (Freshman) courses and enter a 98-credit (six-term) program.

Course choices must be made through consultation with the Student Adviser for the Professional Programs.

All Year 0 students must successfully complete 10 credits from the following:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
PHYS 131	Mechanics and Waves. ¹	4

¹ A PHYS course equivalent to Mechanics with labs may be substituted upon approval of the department.

All Year 0 students must also successfully complete 18 credits as follows:

3 credits from among any 100- or 200-level courses with the subject codes of ATOC (Atmospheric and Oceanic Sciences), COMP (Computer Science), ENVR (Environment), and EPSC (Earth and Planetary Sciences).

15 credits from among any 100- or 200-level courses with the subject codes of AFRI (African Studies), ANTH (Anthropology), ARTH (Art History), CANS (Canadian Studies), CATH (Catholic Studies), CLAS (Classics), COMS (Communication Studies), EAST (East Asian Studies), ECON (Economics), ENGL (English), FREN (French), FSCI (Faculty of Science), GEOG (Geography), GSFS (Gender, Sexuality, Feminist, and Social Justice), GERM (German), HISP (Hispanic Studies), HIST (History), INDG (Indigenous Studies), ISLA (Islamic Studies), ITAL (Italian), JWST (Jewish Studies), LING (Linguistics), LLCU (Languages, Literatures, and Cultures), MUAR

(Music - Arts Faculty), PHIL (Philosophy), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), RUSS (Russian), SOCI (Sociology).

Required Courses (80 credits)

Architectural Courses

Note: ARCH 250 and ARCH 378 should be taken in the first year of studies.

Expand allContract all

Course	Title	Credits
ARCH 201	Communication, Behaviour and Architecture.	6
ARCH 202	Architectural Graphics and Elements of Design.	6
ARCH 221	Architectural Drawing.	2
ARCH 240	Organization of Materials in Buildings.	3
ARCH 241	Architectural Structures 1.	3
ARCH 250	Architectural History 1.	3
ARCH 251	Architectural History 2.	3
ARCH 303	Design and Construction 1.	6
ARCH 304	Design and Construction 2.	6
ARCH 325	Architectural Sketching.	2
ARCH 342	Digital Representation.	3
ARCH 354	Architectural History 3.	3
ARCH 355	Architectural History 4.	3
ARCH 375	Landscape.	3
ARCH 377	Energy, Environment, and Buildings 1.	3
ARCH 378	Introduction to Building Environments.	3
ARCH 405	Design and Construction 3.	6
ARCH 406	Design and Construction 4.	6
ARCH 445	Architectural Structures 2.	3
ARCH 447	Energy, Environment, and Buildings 2.	3
ARCH 512	Architectural Modelling.	3
ARCH 551	Urban Design and Planning.	3

Complementary Courses (9 credits)

9 credits from among the following:

Expand allContract all

Course	Title	Credits
ARCH 379	Summer Course Abroad.	3
ARCH 383	Geometry and Architecture.	3
ARCH 490	Selected Topics in Design.	2
ARCH 514	Community Design Workshop.	3
ARCH 515	Sustainable Design.	3
ARCH 517	Sustainable Residential Development.	3
ARCH 519	Field Course Abroad.	3
ARCH 520	Montreal: Urban Morphology.	3
ARCH 523	Significant Texts and Buildings.	3

ARCH 525	Seminar on Analysis and Theory.	3
ARCH 528	History of Housing.	3
ARCH 531	Architectural Intentions Vitruvius - Renaissance.	3
ARCH 532	Origins of Modern Architecture.	3
ARCH 535	History of Architecture in Canada.	3
ARCH 536	Heritage Conservation.	3
ARCH 540	Selected Topics in Architecture 1.	3
ARCH 541	Selected Topics in Architecture 2.	3
ARCH 542	Selected Topics in Architecture 3.	3
ARCH 543	Selected Topics in Architecture 4.	3
ARCH 562	Innovative Homes and Communities.	3
ARCH 564	Design for Development.	3
ARCH 566	Cultural Landscapes Seminar.	3

Elective Courses (9 credits)

9 credits of elective courses outside the School of Architecture must be completed, subject to approval by the Student Adviser.

Bioengineering (B.Eng.) (142 credits)

Offered by: Bioengineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 142

Program Description

The B.Eng.; Major in Bioengineering will

- provide students with the ability to apply systematic knowledge of biology, physical sciences and mathematics; and sound engineering foundations in order to solve problems of a biological nature; and
- prepare students for the broad area of bioengineering, incorporating both biology-focused biological engineering and medicine-focused biomedical engineering.

Students will acquire fundamental knowledge in bioengineering-related natural sciences and mathematics, as well as in the foundations of general engineering and bioengineering. Students will also acquire knowledge in one area of specialization of bioengineering:

- biological materials and biomechanics;
- biomolecular and cellular engineering; or
- biological information and computation

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credits for Year 0 (Freshman) courses, except BIOL 112 Cell and Molecular Biology. Students from Quebec CEGEPs who have successfully completed a course at CEGEP that is equivalent to BIOL 112 Cell and Molecular Biology, may obtain transfer credits for this course by passing the McGill Science Placement Exam for BIOL 112. For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see www.mcgill.ca/

engineering/student/sao/newstudents and select your term of admission.

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

Required Non-Departmental Courses (27 credits)

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1. ¹	4
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
FACC 100	Introduction to the Engineering Profession. ²	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
PHYS 319	Introduction to Biophysics.	3
WCOM 206	Communication in Engineering.	3

¹ Students from a CEGEP background who have completed a CEGEP course equivalent to CHEM 212 Introductory Organic Chemistry 1. may obtain transfer credits for this course by passing the McGill Placement Exam before the start of their first term. For information on Science Placement Exams, see www.mcgill.ca/exams/dates/science. CEGEP students who do not successfully complete the CHEM 212 Introductory Organic Chemistry 1. Placement Exam must take CHEM 212 Introductory Organic Chemistry 1. at McGill, as outlined in the program requirements.

² Note FACC 100 Introduction to the Engineering Profession. FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Bioengineering Courses (53 credits)

Expand allContract all

Course	Title	Credits
BIEN 200	Introduction to Bioengineering.	2
BIEN 203	Introduction to Statistics and Data Science	3

			Course	Title	Credits
BIEN 210	Electrical and Optical Properties of Biological Systems.	3	BIEN 310	Introduction to Biomolecular Engineering.	3
BIEN 219	Introduction to Physical Molecular and Cell Biology.	4	BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3
BIEN 220	Introduction to Mechanics for Bioengineers.	2	BIEN 330	Tissue Engineering and Regenerative Medicine.	3
BIEN 267	Bioanalytical Methods in Bioengineering.	3	BIEN 550	Biomolecular Devices.	3
BIEN 290	Bioengineering Measurement Laboratory.	3	BIEN 580	Synthetic Biology.	3
BIEN 300	Thermodynamics in Bioengineering.	3		And 9-10 credits from Bioengineering General Technical courses..	
BIEN 314	Transport Phenomena in Biological Systems 1.	3			
BIEN 340	Transport Phenomena in Biological Systems 2.	3			
BIEN 350	Biosignals, Systems and Control.	4			
BIEN 360	Physical Chemistry in Bioengineering.	3			
BIEN 390	Bioengineering Laboratory.	3			
BIEN 420	Biodevices Design for Diagnostics and Screening.	3			
BIEN 470D1	Bioengineering Design Project.	3			
BIEN 470D2	Bioengineering Design Project.	3			
BIEN 471	Bioengineering Research Project.	2			
BIEN 560	Design of Biosensors.	3			

Complementary Courses (33-34 credits)

Bioengineering Technical Courses (24-25 credits)

Starting in the third year (second year for CEGEP students) (Year 2), students will need to take 30-31 credits of courses to upgrade their general knowledge of Bioengineering. Students must register for the required Technical Complementary courses in one of the three streams of bioengineering knowledge and practice:

1. Biological Materials and Mechanics (25 credits);
2. Biomolecular and Cellular Engineering (24-25 credits); or
3. Biological Information and Computation (24-25 credits).

Stream 1: Biological Materials and Mechanics (25 credits)

16 credits from the following Stream specific courses:

			Course	Title	Credits
			BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3
			BIEN 330	Tissue Engineering and Regenerative Medicine.	3
			BIEN 361	Materials for Bio-Applications.	3
			BIEN 570	Active Mechanics in Biology.	3
			CIVE 207	Solid Mechanics.	4

and 9 credits from Bioengineering General Technical courses:

Stream 2: Biomolecular and Cellular Engineering (24-25 credits)

15 credits from the following Stream specific courses:

Expand allContract all

			Course	Title	Credits
			BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3
			BIEN 330	Tissue Engineering and Regenerative Medicine.	3
			BIEN 550	Biomolecular Devices.	3
			BIEN 570	Active Mechanics in Biology.	3
			BIEN 580	Synthetic Biology.	3
			BIEN 585	Metabolic Engineering.	3

Stream 3: Biological Information and Computation (24-25 credits)

15 credits from the following Stream specific courses:

Expand allContract all

			Course	Title	Credits
			BIEN 310	Introduction to Biomolecular Engineering.	3
			BIEN 410	Computational Methods in Biomolecular Engineering.	3
			BIEN 462	Engineering Principles in Physiological Systems.	3
			BIEN 530	Imaging and Bioanalytical Instrumentation.	3
			BIEN 540	Information Storage and Processing in Biological Systems.	3

And 9-10 credits form the Bioengineering General Technical Courses.

Bioengineering General Technical Courses

9-10 credits

All students must take 9-10 credits from the following:

Expand allContract all

			Course	Title	Credits
			BIEN 410	Computational Methods in Biomolecular Engineering.	3
			BIEN 450	Biological Structures and Assemblies.	3
			BIEN 462	Engineering Principles in Physiological Systems.	3
			BIEN 500	Special Topics in Bioengineering 1.	3
			BIEN 505	Medical Technology Innovation and Development .	3
			BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
			BIEN 514	Fundamentals and Rheology of Biological Fluids.	3
			BIEN 515	Special Topics in Bioengineering 2.	3
			BIEN 525	Special Topics in Bioengineering 3.	3
			BIEN 530	Imaging and Bioanalytical Instrumentation.	3
			BIEN 535	Electron Microscopy and 3D Imaging for Biological Materials.	3
			BIEN 540	Information Storage and Processing in Biological Systems.	3
			BIEN 545	Diagnostic Devices at the Point-of-Care.	3
			BIEN 550	Biomolecular Devices.	3
			BIEN 570	Active Mechanics in Biology.	3
			BIEN 580	Synthetic Biology.	3
			BIEN 585	Metabolic Engineering.	3

			Course	Title	Credits
BIEN 590	Cell Culture Engineering.	3	ANTH 212	Anthropology of Development.	3
BIEN 595	Advanced Biomolecular Systems Modelling.	3	ARCH 515	Sustainable Design.	3
BMDE 502	BME Modelling and Identification.	3	BTEC 502	Biotechnology Ethics and Society.	3
BMDE 503	Biomedical Instrumentation.	3	COMS 200	History of Communication.	3
BMDE 504	Biomaterials and Bioperformance.	3	COMS 411	Disability, Technology and Communication.	3
BMDE 505	Cell and Tissue Engineering.	3	ECON 225	Economics of the Environment.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3	ECON 347	Economics of Climate Change.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3	ENVR 201	Society, Environment and Sustainability.	3
BMDE 519	Biomedical Signals and Systems.	3	GEOG 203	Environmental Systems.	3
CHEE 563	Biofluids and Cardiovascular Mechanics.	3	GEOG 205	Global Change: Past, Present and Future.	3
CIVE 281	Analytical Mechanics.	3	GEOG 302	Environmental Management 1.	3
CIVE 557	Microbiology for Environmental Engineering.	3	INSY 331	Managing and Organizing Digital Technology.	3
COMP 250	Introduction to Computer Science.	3	INSY 334	Design Thinking for User Experience.	3
COMP 251	Algorithms and Data Structures.	3	INSY 455	Technology and Innovation for Sustainability.	3
COMP 462	Computational Biology Methods.	3	LLCU 212	Understanding Digital and Social Media.	3
COMP 551	Applied Machine Learning.	4	MGCR 331	Information Technology Management .	3
ECSE 415	Introduction to Computer Vision.	3	MGPO 440	Strategies for Sustainability.	3
MECH 321	Mechanics of Deformable Solids.	3	MGPO 460	Managing Innovation.	3
MECH 513	Control Systems.	3	MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
MECH 547	Mechanics of Biological Materials.	3	PHIL 343	Biomedical Ethics.	3
MECH 561	Biomechanics of Musculoskeletal Systems.	3	SEAD 500	Foundations of Sustainability for Engineering and Design.	3
MECH 563	Biofluids and Cardiovascular Mechanics.	3	SEAD 530	Economics for Sustainability in Engineering and Design.	3
MECH 572	Mechanics and Control of Robotic Manipulators.	3	SOCI 235	Technology and Society.	3
MIME 470	Engineering Biomaterials.	3	SOCI 312	Sociology of Work and Industry.	3
MIME 473	Introduction to Computational Materials Design.	3	SOCI 325	Sociology of Science.	3
PHYS 534	Nanoscience and Nanotechnology.	3			
SEAD 510	Energy Analysis.	4			
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3			
SEAD 520	Life Cycle-Based Environmental Footprinting .	3			
SEAD 540	Industrial Ecology and Systems.	3			
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3			

¹ Note: If chosen, students may take only one of CHEE 563 and MECH 563.

² Note: Students may only take one of the two 4-credit technical courses.

Note: Maximum 6 credits of SEAD courses are allowed.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Note: Enrolment in certain courses is subject to permission from the offering department.

¹ * Prerequisites will be strictly applied.

² ** Note: ENVR courses have limited enrolment.

³ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Group B - Humanities and Social Science, Management Studies and Law

6 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH, and COMS)
 East Asian Studies (EAST)
 Economics (excluding ECON 227D1/ECON 227D2 and ECON 337)*
 French Language & Literature (FREN)* (excluding FREN 222, and FREN 333)
 French Language Center (FRSL courses 200 level or higher)
 History and Classical Studies (CLAS, and HIST excluding HIST 399)
 Inst for Gender, Sex & Fem St (GSFS)
 Institute for Study of Canada (CANS, and INDG)
 Islamic Studies (AFRI, and ISLA)
 Jewish Studies (JWST)
 Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)
 Philosophy (excluding PHIL 210 and PHIL 310)
 Political Science (excluding POLI 311)
 Religious Studies (CATH, RELG)
 Sociology (excluding SOCI 211, SOCI 330, SOCI 342, SOCI 343, SOCI 350)

* Note: Restriction applies to the courses that are reserved for the majors and Honours.

OR from the following list:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
INDR 294	Introduction to Labour-Management Relations.	3
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 352	Principles of Marketing.	3
ORGB 321	Leadership.	3
ORGB 420	Managing Organizational Teams.	3
ORGB 423	Human Resources Management.	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

- ¹ *Note: Restriction applies to the courses that are reserved for the majors and Honours.
- ² INTG 215 is not open to students who have taken INTG 201 and INTG 202.
- ³ ENVR courses have limited enrolment.

Chemical Engineering (B.Eng.) (143 credits)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 143 credits

Program Description

Program credit weight for Quebec CEGEP students: 114 credits

Program credit weight for out-of-province students: 143 credits

The discipline of chemical engineering is distinctive in being based equally on physics, mathematics, and chemistry. Application of these three fundamental sciences is basic to a quantitative understanding of the process industries. Those with an interest in the fourth fundamental science, biology, will find several courses in the chemical engineering curriculum that integrate aspects of the biological sciences relevant to process industries such as food processing, fermentation, biomedical, and water pollution control. Courses on the technical operations and economics of the process industries are added to this foundation. The core curriculum concludes with process design courses taught by practising design engineers. Problem-solving, experimenting, planning, and communication skills are emphasized in courses throughout the core curriculum.

Certain students who take advantage of Summer session courses can complete the departmental program in three calendar years.

In some cases, students from university science disciplines have sufficient credits to complete the requirements for the B.Eng. (Chemical) program in two and a half years. Those concerned should discuss this with their adviser.

Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

Note to CEGEP Students

If you have successfully completed a course at CEGEP that is equivalent to CHEM 212 Introductory Organic Chemistry 1. or CHEM 234 Topics in Organic Chemistry., you may obtain transfer credits for either or both courses by passing the McGill Science Placement Exam for the course(s). You must complete an application form available on the Science Placement Exam website and an application fee will be charged to your student account. Science placement exams take place in August and September before classes begin. If you pass the exam(s), transfer credits for the course(s) will be reflected on your transcript and your program credit requirements will be decreased to reflect these transfer credits. For information

on Science Placement Exams, including application deadlines, the application form, application fee, dates, times, and location of the exams, see www.mcgill.ca/exams/dates/science. If you do not pass the placement exams, you must register for CHEM 212 Introductory Organic Chemistry 1. and CHEM 234 Topics in Organic Chemistry. during your studies at McGill as outlined in your program requirements.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 114-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (24 credits)

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 234	Topics in Organic Chemistry.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
FACC 100	Introduction to the Engineering Profession.	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
Total Credits		24

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Chemical Engineering Courses (75 credits)

Expand allContract all

Course	Title	Credits
CHEE 200	Chemical Engineering Principles 1.	3
CHEE 204	Chemical Engineering Principles 2.	3
CHEE 220	Chemical Engineering Thermodynamics.	3
CHEE 231	Data Analysis and Design of Experiments.	3
CHEE 291	Instrumentation and Measurement 1.	4
CHEE 310	Physical Chemistry for Engineers.	3
CHEE 314	Fluid Mechanics.	3
CHEE 315	Heat and Mass Transfer.	3
CHEE 351	Separation Processes.	3
CHEE 370	Elements of Biotechnology.	3
CHEE 380	Materials Science.	3
CHEE 390	Computational Methods in Chemical Engineering.	3
CHEE 400	Principles of Sustainable Energy Conversion.	3
CHEE 401	Energy Systems Engineering.	3
CHEE 423	Chemical Reaction Engineering.	3
CHEE 440	Process Modelling.	3
CHEE 453	Process Design.	4
CHEE 455	Process Control.	3
CHEE 456D1	Design Project.	4.5
CHEE 456D2	Design Project.	4.5
CHEE 474	Biochemical Engineering.	3
CHEE 484	Materials Engineering.	3
CHEE 491	Instrumentation and Measurement 2.	4

Technical Complementaries (9 credits)

The purpose of this requirement is to provide students with an area of specialization within the broad field of chemical engineering. Alternatively, students use the technical complementaries to increase the breadth of their chemical engineering training.

List A

3-9 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 301	Resource Recovery and Circular Use.	3
CHEE 511	Catalysis for Sustainable Fuels and Chemicals.	3
CHEE 512	Stem Cell Bioprocess Engineering.	3
CHEE 515	Interface Design: Biomimetic Approach.	3

CHEE 521	Nanomaterials and the Aquatic Environment.	¹ 3
CHEE 541	Electrochemical Engineering.	3
CHEE 543	Plasma Engineering.	3
CHEE 563	Biofluids and Cardiovascular Mechanics.	¹ 3
CHEE 582	Polymer Science and Engineering.	3
CHEE 584	Polymer Processing.	3
CHEE 585	Foundations of Soft Matter.	3
CHEE 591	Environmental Bioremediation.	3
CHEE 593	Industrial Water Pollution Control.	¹ 3
CIVE 430	Water Treatment and Pollution Control.	¹ 3
CIVE 521	Nanomaterials and the Aquatic Environment.	¹ 3
MECH 534	Air Pollution Engineering.	¹ 3
MECH 563	Biofluids and Cardiovascular Mechanics.	3

¹ Students may choose only one course in each of the following sets:
 • CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
 • CHEE 563 Biofluids and Cardiovascular Mechanics. or MECH 563 Biofluids and Cardiovascular Mechanics.
 • CHEE 593 Industrial Water Pollution Control. or CIVE 430 Water Treatment and Pollution Control.

List B

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
BIEN 550	Biomolecular Devices.	3
BREE 325	Food Process Engineering.	3
BREE 522	Bio-Based Polymers.	3
CHEE 494	Research Project and Seminar 1.	¹ 3
CHEE 495	Research Project and Seminar 2.	¹ 4
CHEE 496	Environmental Research Project.	¹ 3
CIVE 557	Microbiology for Environmental Engineering.	3
MIME 470	Engineering Biomaterials.	3
MIME 515	(Bio)material Surface Analysis and Modification.	3

¹ Students may choose only one project course: CHEE 494 Research Project and Seminar 1., CHEE 495 Research Project and Seminar 2., or CHEE 496 Environmental Research Project..

List C

0-3 credits

The remaining credits, up to a maximum of 3 credits, may be taken from other suitable undergraduate courses in the Faculty of Engineering, with departmental permission.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ARCH 515	Sustainable Design.	3
BTEC 502	Biotechnology Ethics and Society.	3
COMS 200	History of Communication.	¹ 3
COMS 411	Disability, Technology and Communication.	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change.	3
ENVR 201	Society, Environment and Sustainability. ²	3
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 302	Environmental Management 1.	3
INSY 331	Managing and Organizing Digital Technology.	³ 3
INSY 334	Design Thinking for User Experience.	3
INSY 455	Technology and Innovation for Sustainability.	3
LLCU 212	Understanding Digital and Social Media.	3
MGCR 331	Information Technology Management.	¹ 3
MGPO 440	Strategies for Sustainability.	3
MGPO 460	Managing Innovation.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
PHIL 343	Biomedical Ethics.	3
SEAD 500	Foundations of Sustainability for Engineering and Design.	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SOCI 235	Technology and Society.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3

¹ Prerequisites will be strictly applied

Note: Enrolment in certain courses is subject to permission from the offering department.

² Note: ENVR courses have limited enrolment.

³ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies and Law

3 credits at the 200 or 300 level from the following departments:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
INDR 294	Introduction to Labour-Management Relations.	3
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 352	Principles of Marketing.	3
ORGB 321	Leadership.	3
ORGB 420	Managing Organizational Teams.	3
ORGB 423	Human Resources Management.	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ²	3
ENVR 400	Environmental Thought.	3

MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

¹ INTG 215 is not open to students who have taken INTG 201 and INTG 202.

² Note: ENVR courses have limited enrolment

Civil Engineering (B.Eng.) (139 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 139 credits

Program Description

Program credit weight for Quebec CEGEP students: 110 credits

The Civil Engineering program is comprehensive in providing the fundamentals in mechanics and engineering associated with the diverse fields of the profession, in offering choices of specialization, and in fully reflecting the advances in science, mathematics, engineering, and computing that have transformed all fields of engineering in recent years. The resulting knowledge and training enables graduates to not only enter the profession thoroughly well prepared, but also to adapt to further change.

The required courses ensure a sound scientific and analytical basis for professional studies through courses in solid mechanics, fluid mechanics, soil mechanics, environmental engineering, water resources management, structural analysis, systems analysis, and mathematics. Fundamental concepts are applied to various fields of practice in both required and complementary courses.

By a suitable choice of complementary courses, students can attain advanced levels of technical knowledge in the specialized areas mentioned above. Alternatively, students may choose to develop their interests in a more general way by combining complementary courses within the Department with several from other departments or faculties.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 110-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams,

Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses (28 credits)

Expand allContract all

Course	Title	Credits
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
EPSC 221	General Geology.	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MECH 261	Measurement Laboratory.	2
MECH 289	Design Graphics.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Civil Engineering Courses (61 credits)

Expand allContract all

Course	Title	Credits
CIVE 202	Construction Materials.	4
CIVE 205	Statics.	3
CIVE 206	Dynamics.	3
CIVE 207	Solid Mechanics.	4

CIVE 208	Civil Engineering System Analysis.	3
CIVE 210	Surveying.	2
CIVE 225	Environmental Engineering.	4
CIVE 290	Thermodynamics and Heat Transfer.	3
CIVE 302	Probabilistic Systems.	3
CIVE 311	Geotechnical Mechanics.	4
CIVE 317	Structural Engineering 1.	3
CIVE 318	Structural Engineering 2.	3
CIVE 319	Transportation Engineering.	3
CIVE 320	Numerical Methods.	4
CIVE 323	Hydrology and Water Resources.	3
CIVE 324	Sustainable Project Management.	3
CIVE 327	Fluid Mechanics and Hydraulics.	4
CIVE 418	Design Project.	4
CIVE 432	Technical Paper.	1

Complementary Courses (21 credits)

List A - Design Technical Complementaries

6-15 credits from the following:

Course	Title	Credits
CIVE 416	Geotechnical Engineering.	3
CIVE 421	Municipal Systems.	3
CIVE 428	Water Resources and Hydraulic Engineering.	3
CIVE 430	Water Treatment and Pollution Control.	3
CIVE 440	Traffic Engineering and Simulation.	3
CIVE 462	Design of Steel Structures.	3
CIVE 463	Design of Concrete Structures.	3

List B - General Technical Complementaries

0-9 credits from the following, or from other suitable undergraduate or 500-level courses:

Course	Title	Credits
CHEE 521	Nanomaterials and the Aquatic Environment.	3
CIVE 446	Construction Engineering.	3
CIVE 460	Matrix Structural Analysis.	3
CIVE 470	Undergraduate Research Project.	3
CIVE 507	Wind Engineering.	3
CIVE 512	Advanced Civil Engineering Materials.	3
CIVE 520	Groundwater Hydrology.	3
CIVE 521	Nanomaterials and the Aquatic Environment.	3
CIVE 527	Renovation and Preservation: Infrastructure.	3
CIVE 528	Design of Wood Structures.	3
CIVE 540	Urban Transportation Planning.	3

CIVE 542	Transportation Network Analysis.	3	SEAD 530	Economics for Sustainability in Engineering and Design.	3			
CIVE 543	System Dynamics for Civil and Environmental Engineering	3	SOCI 235	Technology and Society.	3			
CIVE 546	Selected Topics in Civil Engineering 1.	3	SOCI 312	Sociology of Work and Industry.	3			
CIVE 550	Water Resources Management.	3	SOCI 325	Sociology of Science.	3			
CIVE 555	Environmental Data Analysis.	3	Note: Enrolment in certain courses is subject to permission from the offering department.					
CIVE 557	Microbiology for Environmental Engineering.	3	1 Note Prerequisites will be strictly applied 2 Note: ENVR courses have limited enrolment. 3 Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates	Note Prerequisites will be strictly applied 2 Note: ENVR courses have limited enrolment. 3 Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates	Note Prerequisites will be strictly applied 2 Note: ENVR courses have limited enrolment. 3 Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates			
CIVE 560	Transportation Safety and Design.	3						
CIVE 561	Greenhouse Gas Emissions.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 570	Solar Driven Environmental Processes and Technologies	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 572	Computational Hydraulics.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 573	Hydraulic Structures.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 574	Fluid Mechanics of Water Pollution.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 577	River Engineering.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
CIVE 584	Mechanics of Groundwater Flow.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					
URBP 551	Urban Design and Planning.	3	Note: Management courses have limited enrolment and registration dates. See Important dates at http://www.mcgill.ca/importantdates					

¹ Students may choose only one of CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment..

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits	
ANTH 212	Anthropology of Development.	3	French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)
ARCH 515	Sustainable Design.	3	French Language Center (FRSL courses 200 level or higher)
BTEC 502	Biotechnology Ethics and Society.	3	History and Classical Studies (HIST and CLAS) excluding HIST 339
COMS 200	History of Communication.	3	Inst for Gender, Sex & Fem St (GSFS)
COMS 411	Disability, Technology and Communication.	3	Institute for Study of Canada (CANS, and INDG)
ECON 225	Economics of the Environment.	3	Islamic Studies (AFRI, and ISLA)
ECON 347	Economics of Climate Change.	3	Jewish Studies (JWST)
ENVR 201	Society, Environment and Sustainability.	2	Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)
GEOG 203	Environmental Systems.	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
GEOG 205	Global Change: Past, Present and Future.	3	Political Science (POLI) (excluding POLI 311)
GEOG 302	Environmental Management 1.	3	Religious Studies (CATH and RELG)
INSY 331	Managing and Organizing Digital Technology.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
INSY 334	Design Thinking for User Experience.	3	OR from the following list:
INSY 455	Technology and Innovation for Sustainability.	3	Desautels Faculty of Management
LLCU 212	Understanding Digital and Social Media.	3	Expand allContract all
MGCR 331	Information Technology Management .	1	
MGPO 440	Strategies for Sustainability.	3	
PHIL 343	Biomedical Ethics.	3	
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	

Course	Title	Credits	
BUSA 465	Technological Entrepreneurship. ¹	3	electrical engineering and can function in any of our client industries. This breadth is what distinguishes an engineer from, for example, a computer scientist or physicist.
INDR 294	Introduction to Labour-Management Relations. ¹	3	
INTG 215	Entrepreneurship Essentials for Non-Management Students. ¹	3	In addition to technical complementary courses, students in the Electrical Engineering program take general complementary courses in social sciences, administrative studies, and humanities. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.
MGCR 222	Introduction to Organizational Behaviour. ¹	3	
MGCR 352	Principles of Marketing. ¹	3	
ORGB 321	Leadership. ¹	3	
ORGB 420	Managing Organizational Teams. ¹	3	
ORGB 423	Human Resources Management. ¹	3	

Faculty of Science

Expand allContract all

Course	Title	Credits	
ENVR 203	Knowledge, Ethics and Environment. ²	3	For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see www.mcgill.ca/engineering/current-students/undergraduate/new-students and select your term of admission.
ENVR 400	Environmental Thought. ²	3	
MATH 338	History and Philosophy of Mathematics.	3	
PSYC 100	Introduction to Psychology.	3	

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Restriction applies to the courses that are reserved for the majors and Honours.

- ¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>
Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.
² Note: ENVR courses have limited enrolment.

Electrical Engineering (B.Eng.) (134 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 134 credits

Program Description

Program credit weight: 134-137 credits

Program credit weight for Quebec CEGEP students: 109-112 credits

This program gives students a broad understanding of the key principles that are responsible for the extraordinary advances in the technology of computers, micro-electronics, automation and robotics, telecommunications, and power systems. These areas are critical to the development of our industries and, more generally, to our economy. A graduate of this program is exposed to all basic elements of

Required Year 0 (Freshman) Courses (25 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 109- to 112 credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see www.mcgill.ca/engineering/current-students/undergraduate/new-students and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B)

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (26 credits)

Expand allContract all

Course	Title	Credits
CIVE 281	Analytical Mechanics.	3
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MIME 262	Properties of Materials in Electrical Engineering.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Electrical Engineering Courses (57 credits)

Expand allContract all

Course	Title	Credits
ECSE 200	Electric Circuits 1.	3
ECSE 205	Probability and Statistics for Engineers	3
ECSE 206	Introduction to Signals and Systems.	3
ECSE 210	Electric Circuits 2.	3
ECSE 211	Design Principles and Methods.	3
ECSE 222	Digital Logic.	3
ECSE 250	Fundamentals of Software Development.	3
ECSE 251	Electric and Magnetic Fields.	3
ECSE 307	Linear Systems and Control.	4
ECSE 308	Introduction to Communication Systems and Networks.	4
ECSE 324	Computer Organization.	4
ECSE 331	Electronics.	4
ECSE 343	Numerical Methods in Engineering.	3
ECSE 354	Electromagnetic Wave Propagation.	4
ECSE 362	Fundamentals of Power Engineering.	4
ECSE 458D1	Capstone Design Project.	3
ECSE 458D2	Capstone Design Project.	3

Note: ECSE 458N1 Capstone Design Project. and ECSE 458N2 Capstone Design Project. can be taken instead of ECSE 458D1 Capstone Design Project. and ECSE 458D2 Capstone Design Project..

Complementary Courses (23-26 credits)

Technical Complementaries

17-20 credits (5 courses) must be taken, chosen as follows:

8 credits (2 courses) from List A

9-12 credits (3 courses) from List A or List B

List A: Technical Complementaries with Laboratory Experience (8-20 credits)

Expand allContract all

Course	Title	Credits
ECSE 335	Microelectronics.	4
ECSE 403	Control.	4
ECSE 408	Communication Systems.	4
ECSE 416	Telecommunication Networks.	4
ECSE 433	Physical Basis of Transistor Devices.	4
ECSE 444	Microprocessors.	4

ECSE 470 Electromechanical and Static Conversion Systems.

4

List B: Technical Complementaries (0-12 credits)

Expand allContract all

Course	Title	Credits
COMP 370	Introduction to Data Science.	3
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 551	Applied Machine Learning.	4
COMP 559	Fundamentals of Computer Animation.	4
COMP 562	Theory of Machine Learning.	4
ECSE 310	Thermodynamics of Computing.	3
ECSE 325	Digital Systems.	3
ECSE 405	Antennas.	3
ECSE 412	Discrete Time Signal Processing.	3
ECSE 415	Introduction to Computer Vision.	3
ECSE 420	Parallel Computing.	3
ECSE 421	Embedded Systems.	3
ECSE 422	Fault Tolerant Computing.	3
ECSE 423	Fundamentals of Photonics.	3
ECSE 424	Human-Computer Interaction.	3
ECSE 425	Computer Architecture.	3
ECSE 427	Operating Systems.	3
ECSE 430	Photonic Devices and Systems.	3
ECSE 435	Mixed-Signal Test Techniques.	3
ECSE 446	Realistic Image Synthesis.	3
ECSE 451	EM Transmission and Radiation.	3
ECSE 460	Appareillage électrique (Electrical Power Equipment).	3
ECSE 463	Electric Power Generation.	3
ECSE 464	Power Systems Analysis.	3
ECSE 465	Power Electronic Systems.	3
ECSE 466	Réseaux de distribution.	3
ECSE 467	Comportement des réseaux électriques.	3
ECSE 468	Électricité industrielle (Industrial Power Systems).	3
ECSE 469	Protection des réseaux électriques.	3
ECSE 472	Fundamentals of Circuit Simulation and Modelling.	3
ECSE 500	Mathematical Foundations of Systems.	3
ECSE 501	Linear Systems.	3
ECSE 507	Optimization and Optimal Control.	3
ECSE 508	Multi-Agent Systems.	3
ECSE 509	Probability and Random Signals 2.	3
ECSE 516	Nonlinear and Hybrid Control Systems.	3
ECSE 519	Semiconductor Nanostructures and Nanophotonic Devices.	3
ECSE 520	Information Theory and Coding.	3

ECSE 521	Digital Communications 1.	3	MGPO 440	Strategies for Sustainability. ¹	3
ECSE 525	Satellite Navigation Systems .	4	MGPO 460	Managing Innovation.	3
ECSE 526	Artificial Intelligence.	3	MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
ECSE 532	Computer Graphics.	4	PHIL 343	Biomedical Ethics.	3
ECSE 543	Numerical Methods in Electrical Engineering.	3	SEAD 500	Foundations of Sustainability for Engineering and Design.	3
ECSE 544	Computational Photography.	4	SEAD 530	Economics for Sustainability in Engineering and Design.	3
ECSE 551	Machine Learning for Engineers. ¹	4	SOCI 235	Technology and Society.	3
ECSE 552	Deep Learning.	4	SOCI 312	Sociology of Work and Industry.	3
ECSE 554	Applied Robotics .	4	SOCI 325	Sociology of Science.	3
ECSE 556	Machine Learning in Network Biology.	4			
ECSE 557	Introduction to Ethics of Intelligent Systems. ³	3			
ECSE 562	Low-Carbon Power Generation Engineering.	4			
ECSE 563	Power Systems Operation and Planning. ⁴	3			
ECSE 565	Introduction to Power Electronics.	3			
ECSE 575	Heterogeneous Integration Systems.	3			
PHYS 346	Majors Quantum Physics.	3			
PHYS 434	Optics.	3			

¹ ECSE 551 Machine Learning for Engineers. and COMP 551 Applied Machine Learning. cannot both be taken.

² Courses taught in French.

ECSE 463 Electric Power Generation. and ECSE 562 Low-Carbon Power Generation Engineering. cannot both be taken.

⁴ ECSE 465 Power Electronic Systems. and ECSE 565 Introduction to Power Electronics. cannot both be taken.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Course	Title	Credits	
ANTH 212	Anthropology of Development.	3	Art History & Communications (ARTH and COMS)
ARCH 515	Sustainable Design.	3	East Asian Studies (EAST)
BTEC 502	Biotechnology Ethics and Society.	3	Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*
COMS 200	History of Communication.	3	French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)
COMS 411	Disability, Technology and Communication. ¹	3	French Language Center (FRSL courses 200 level or higher)
ECON 225	Economics of the Environment.	3	History and Classical Studies (HIST and CLAS) excluding HIST 339
ECON 347	Economics of Climate Change.	3	Inst for Gender, Sex & Fem St (GSFS)
ENVR 201	Society, Environment and Sustainability.	3	Institute for Study of Canada (CANS, and INDG)
GEOG 203	Environmental Systems.	3	Islamic Studies (AFRI, and ISLA)
GEOG 205	Global Change: Past, Present and Future.	3	Jewish Studies (JWST)
GEOG 302	Environmental Management 1.	3	Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)
INSY 331	Managing and Organizing Digital Technology. ²	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
INSY 334	Design Thinking for User Experience.	3	Political Science (POLI) (excluding POLI 311)
INSY 455	Technology and Innovation for Sustainability.	3	
LLCU 212	Understanding Digital and Social Media.	3	
MGCR 331	Information Technology Management .	3	

*Note: Enrolment in certain courses is subject to permission from the offering department.

¹ Note: Prerequisites will be strictly applied.

² Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship. ¹	3
INDR 294	Introduction to Labour-Management Relations. ¹	3
INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3
MGCR 222	Introduction to Organizational Behaviour. ¹	3
MGCR 352	Principles of Marketing. ¹	3
ORGB 321	Leadership. ¹	3
ORGB 420	Managing Organizational Teams. ¹	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought. ³	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Note: Restrictions applies to the courses that are reserved for the majors and the Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

² Note: INTG 215 is not open to students who have take INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment

Elective Course

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Enhanced Power Concentration

Students following this program must complete 16-17 credits of technical complementary courses.

The Institute for Electrical Power Engineering was recently established as a province-wide centre for electrical power engineering education. It is funded by industry, mostly Hydro-Québec, and provides a comprehensive program, state-of-the-art laboratory facilities, and a point of contact between industry and universities involved in power engineering.

Note: This program is open to students in the regular Electrical Engineering program only.

Here are some benefits of the concentration:

- A complete and up-to-date final-year program in electrical power engineering, with industry-sponsored and supported courses
- Access to industry-sponsored projects, internships, and new employment opportunities

Eligibility Criteria

Admission to the program is granted only in the Fall semester of every academic year. To be considered, the applicant must:

- be registered in the B.Eng. program (regular Electrical Engineering);
- have a cumulative GPA of at least 2.5;
- have completed or be registered in ECSE 362 Fundamentals of Power Engineering.;
- be able to complete the degree requirements within three semesters after initial registration in the concentration (excluding summer semesters);
- agree to follow the curriculum requirements set out below.

Selection Criteria

The number of students selected, expected to be between five and ten, will be subject to a specific agreement between the University and the Institute. Selection criteria for admission to the Institute will be based on the CGPA and on the curriculum vitae. The selection process for the scholarship may involve an interview with the committee presided by Hydro-Québec and the industrial partners. There is a possibility of an internship with Hydro-Québec.

Curriculum Requirements for Selected Students

Generally, unless the University has authorized specific substitutions, students must complete the degree requirements set out in this Course Catalogue with the following specifications:

Technical Complementaries and Laboratories (16 credits)

All students must take (or have taken) five courses from the following:

Required Courses (10 credits)

Course	Title	Credits
ECSE 464	Power Systems Analysis.	3
ECSE 465	Power Electronic Systems.	3
ECSE 470	Electromechanical and Static Conversion Systems.	4

Students must also complete ECSE 458D1 Capstone Design Project. (Capstone Design Project) and ECSE 458D2 Capstone Design Project.E on a practical project in power engineering, preferably at the Institute or with a company sponsoring the Institute.

Complementary Courses

6-7 credits from the following:

Expand allContract all

Course	Title	Credits
ECSE 403	Control.	4
ECSE 460	Appareillage électrique (Electrical Power Equipment).	3
ECSE 463	Electric Power Generation. ¹	3
ECSE 466	Réseaux de distribution. ¹	3
ECSE 467	Comportement des réseaux électriques. ¹	3
ECSE 468	Électricité industrielle (Industrial Power Systems).	3
ECSE 469	Protection des réseaux électriques. ¹	3

¹ Courses taught in French.

Note: ECSE 460 Appareillage électrique (Electrical Power Equipment),, ECSE 463 Electric Power Generation., ECSE 464 Power Systems Analysis., ECSE 465 Power Electronic Systems., ECSE 467 Comportement des réseaux électriques., ECSE 468 Électricité industrielle (Industrial Power Systems)., and ECSE 469 Protection des réseaux électriques. are courses sponsored by the Institute and taught at Polytechnique Montréal.

Electrical Engineering Honours (B.Eng.) (138 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 138 credits

Program Description

Program credit weight: 138-141 credits

Program credit weight for Quebec CEGEP students: 113-116 credits

Entry into the Electrical Engineering Honours Program

The Honours program is a limited enrolment program and entry is highly competitive. There is no direct entry to the Honours program in the first year. Students may enter the Honours program in the following ways:

- Students from CEGEP will be admitted, on the basis of their grades, at the start of the third term.
- Students from outside Quebec will be admitted, on the basis of their grades, at the start of the fifth term.

To remain in the Honours program and to be awarded the Honours degree, a student must have completed at least 14 credits in each term since entering Electrical and Computer Engineering, except for the

final two terms of their degree, and maintained a CGPA of at least 3.30 since entering Electrical and Computer Engineering. In either of their final two full terms (i.e., Fall and Winter, or Winter and Fall) students may drop below 14 credits, provided the combined load for the two terms is at least 16 credits. For more information, please contact the Departmental office at 514-398-3943.

Required Year 0 (Freshman) Courses (25 credits)

Note: Students in the Honours Electrical Engineering program complete the Year 0 (Freshman) courses before entering the Honours program, as explained above.

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 113- to 116-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (26 credits)

Expand allContract all

Course	Title	Credits
CIVE 281	Analytical Mechanics.	3
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MIME 262	Properties of Materials in Electrical Engineering.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Electrical Engineering Courses (61 credits)

Expand allContract all

Course	Title	Credits
ECSE 200	Electric Circuits 1.	3
ECSE 205	Probability and Statistics for Engineers	3
ECSE 206	Introduction to Signals and Systems.	3
ECSE 210	Electric Circuits 2.	3
ECSE 211	Design Principles and Methods.	3
ECSE 222	Digital Logic.	3
ECSE 250	Fundamentals of Software Development.	3
ECSE 251	Electric and Magnetic Fields.	3
ECSE 307	Linear Systems and Control.	4
ECSE 308	Introduction to Communication Systems and Networks.	4
ECSE 324	Computer Organization.	4
ECSE 331	Electronics.	4
ECSE 343	Numerical Methods in Engineering.	3
ECSE 354	Electromagnetic Wave Propagation.	4
ECSE 362	Fundamentals of Power Engineering.	4
ECSE 396	Honours Research Laboratory Rotation 1.	1
ECSE 397	Honours Research Laboratory Rotation 2.	1
ECSE 478D1	Electrical Engineering Honours Thesis.	3
ECSE 478D2	Electrical Engineering Honours Thesis.	3
ECSE 496	Honours Research Laboratory Rotation 3.	1
ECSE 497	Honours Research Laboratory Rotation 4.	1

Note: ECSE 478N1 Electrical Engineering Honours Thesis. and ECSE 478N2 Electrical Engineering Honours Thesis. can be taken instead of ECSE 478D1 Electrical Engineering Honours Thesis. and ECSE 478D2 Electrical Engineering Honours Thesis..

Complementary Courses (23-26 credits)

Technical Complementaries

17-20 credits (5 courses) must be taken, chosen as follows:

8 credits (2 courses) from List A

6-8 credits (2 courses) from 500-level ECSE courses

3-4 credits (1 course) from List A, List B, List C or from 500-level ECSE courses

List A: Technical Complementaries with Laboratory Experience

8-12 credits from the following:

Expand allContract all

Course	Title	Credits
ECSE 335	Microelectronics. ¹	4
ECSE 403	Control.	4
ECSE 408	Communication Systems. ²	4
ECSE 416	Telecommunication Networks.	4
ECSE 433	Physical Basis of Transistor Devices.	4
ECSE 444	Microprocessors.	4
ECSE 470	Electromechanical and Static Conversion Systems.	4

¹ ECSE 403 Control. and ECSE 501 Linear Systems. cannot both be taken.

² ECSE 408 Communication Systems. and ECSE 511 Introduction to Digital Communication. cannot both be taken.

List B: Technical Complementaries (0-3 credits)

Expand allContract all

Course	Title	Credits
ECSE 310	Thermodynamics of Computing.	3
ECSE 325	Digital Systems.	3
ECSE 415	Introduction to Computer Vision.	3
ECSE 420	Parallel Computing.	3
ECSE 421	Embedded Systems.	3
ECSE 422	Fault Tolerant Computing.	3
ECSE 424	Human-Computer Interaction.	3
ECSE 425	Computer Architecture.	3
ECSE 427	Operating Systems.	3
ECSE 435	Mixed-Signal Test Techniques.	3
ECSE 446	Realistic Image Synthesis.	3
ECSE 451	EM Transmission and Radiation.	3
ECSE 460	Appareillage électrique (Electrical Power Equipment).	3
ECSE 464	Power Systems Analysis.	3
ECSE 467	Comportement des réseaux électriques.	3
ECSE 468	Électricité industrielle (Industrial Power Systems).	3
ECSE 469	Protection des réseaux électriques. ¹	3

¹ Courses taught in French

List C: Non-departmental Complementary Courses (0-4 credits)

Expand allContract all

Course	Title	Credits
COMP 445	Computational Linguistics.	3
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 550	Natural Language Processing.	3
COMP 551	Applied Machine Learning.	4
COMP 562	Theory of Machine Learning.	4
COMP 579	Reinforcement Learning.	4

MATH 247	Honours Applied Linear Algebra.	3	³ Note: Management courses have limited enrolment and registration dates. See Important Dates at http://www.mcgill.ca/importandates
MATH 249	Honours Complex Variables.	3	
MATH 547	Stochastic Processes.	4	
PHYS 357	Honours Quantum Physics 1.	3	
PHYS 434	Optics.	3	
PHYS 457	Honours Quantum Physics 2.	3	
PHYS 558	Solid State Physics.	3	

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits																						
ANTH 212	Anthropology of Development.	3	Art History & Communications (ARTH and COMS)																					
ARCH 515	Sustainable Design.	3	East Asian Studies (EAST)																					
BTEC 502	Biotechnology Ethics and Society.	3	Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*																					
COMS 200	History of Communication.	3	French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)																					
COMS 411	Disability, Technology and Communication. ¹	3	French Language Center (FRSL courses 200 level or higher)																					
ECON 225	Economics of the Environment.	3	History and Classical Studies (HIST and CLAS) excluding HIST 339																					
ECON 347	Economics of Climate Change.	3	Inst for Gender, Sex & Fem St (GSFS)																					
ENVR 201	Society, Environment and Sustainability. ²	3	Institute for Study of Canada (CANS, and INDG)																					
GEOG 203	Environmental Systems.	3	Islamic Studies (AFRI, and ISLA)																					
GEOG 205	Global Change: Past, Present and Future.	3	Jewish Studies (JWST)																					
GEOG 302	Environmental Management 1.	3	Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)																					
INSY 331	Managing and Organizing Digital Technology. ³	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)																					
INSY 334	Design Thinking for User Experience.	3	Political Science (POLI) (excluding POLI 311)																					
INSY 455	Technology and Innovation for Sustainability.	3	Religious Studies (CATH and RELG)																					
LLCU 212	Understanding Digital and Social Media.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)																					
MGCR 331	Information Technology Management . ¹	3	OR from the following list:																					
MGPO 440	Strategies for Sustainability. ¹	3	Desautels Faculty of Management																					
MGPO 460	Managing Innovation.	3	Expand allContract all																					
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	<table border="1"> <thead> <tr> <th>Course</th><th>Title</th><th>Credits</th></tr> </thead> <tbody> <tr> <td>BUSA 465</td><td>Technological Entrepreneurship.¹</td><td>3</td></tr> <tr> <td>INDR 294</td><td>Introduction to Labour-Management Relations.¹</td><td>3</td></tr> <tr> <td>INTG 215</td><td>Entrepreneurship Essentials for Non-Management Students.²</td><td>3</td></tr> <tr> <td>MGCR 222</td><td>Introduction to Organizational Behaviour.¹</td><td>3</td></tr> <tr> <td>MGCR 352</td><td>Principles of Marketing.¹</td><td>3</td></tr> <tr> <td>ORG 321</td><td>Leadership.</td><td>3</td></tr> </tbody> </table>	Course	Title	Credits	BUSA 465	Technological Entrepreneurship. ¹	3	INDR 294	Introduction to Labour-Management Relations. ¹	3	INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3	MGCR 222	Introduction to Organizational Behaviour. ¹	3	MGCR 352	Principles of Marketing. ¹	3	ORG 321	Leadership.	3
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SEAD 500	Foundations of Sustainability for Engineering and Design.	3																						
SEAD 530	Economics for Sustainability in Engineering and Design.	3																						
SOCI 235	Technology and Society.	3																						
SOCI 312	Sociology of Work and Industry.	3																						
SOCI 325	Sociology of Science.	3																						

*Note: Enrolment in certain courses is subject to permission from the offering department.

¹ Note: Prerequisites will be strictly applied.

Note: ENVR courses have limited enrolment.

ORGB 420	Managing Organizational Teams.	¹ 1
ORGB 423	Human Resources Management.	3

Faculty of SciencE

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Elective Course (3 credits)

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Computer Engineering (B.Eng.) (133 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 133 credits

Program Description

Program credit weight: 133-136 credits

Program credit weight for Quebec CEGEP students: 108-111 credits

Program credit weight for out-of-province students: 133-136 credits

The Computer Engineering program provides students with greater depth and breadth of knowledge in the hardware and software aspects of computers. Students are exposed to both theoretical and practical issues of both hardware and software in well-equipped laboratories. Although the program is designed to meet the growing demands by industry for engineers with a strong background in modern computer technology, it also provides the underlying depth for graduate studies in all fields of Computer Engineering.

In addition to technical complementary courses, students in the program take general complementary courses in social sciences, management studies, and humanities. These courses allow students

3 to develop specific interests in areas such as psychology, economics, management, or political science.

Required Year 0 (Freshman) Courses (25 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 108- to 111 credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Administrative Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (26 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
COMP 251	Algorithms and Data Structures.	3
FACC 100	Introduction to the Engineering Profession.	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 240	Discrete Structures.	3
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Computer Engineering Courses (64 credits)

Expand allContract all

Course	Title	Credits			
ECSE 200	Electric Circuits 1.	3	ECSE 439	Software Language Engineering.	3
ECSE 205	Probability and Statistics for Engineers	3	ECSE 472	Fundamentals of Circuit Simulation and Modelling.	3
ECSE 206	Introduction to Signals and Systems.	3	ECSE 508	Multi-Agent Systems.	3
ECSE 210	Electric Circuits 2.	3	ECSE 544	Computational Photography.	4
ECSE 211	Design Principles and Methods.	3			
ECSE 222	Digital Logic.	3			
ECSE 223	Model-Based Programming.	3			
ECSE 250	Fundamentals of Software Development.	3			
ECSE 308	Introduction to Communication Systems and Networks.	4			
ECSE 310	Thermodynamics of Computing.	3			
ECSE 321	Introduction to Software Engineering.	3			
ECSE 324	Computer Organization.	4			
ECSE 325	Digital Systems.	3			
ECSE 331	Electronics.	4			
ECSE 353	Electromagnetic Fields and Waves.	3			
ECSE 425	Computer Architecture.	3			
ECSE 427	Operating Systems.	3			
ECSE 444	Microprocessors.	4			
ECSE 458D1	Capstone Design Project.	3			
ECSE 458D2	Capstone Design Project.	3			

Note: ECSE 458N1 Capstone Design Project. and ECSE 458N2 Capstone Design Project. can be taken instead of ECSE 458D1 Capstone Design Project. and ECSE 458D2 Capstone Design Project..

Complementary Courses (15-18 credits)

Technical Complementaries

9-12 credits (3 courses) must be taken, chosen as follows:

3-4 credits (1 course) from List A

6-8 credits (2 courses) from List A or List B

List A

3-12 credits from the following:

Expand allContract all

Course	Title	Credits			
ECSE 307	Linear Systems and Control.	4	ECSE 520	Information Theory and Coding.	3
ECSE 335	Microelectronics.	4	ECSE 521	Digital Communications 1.	3
ECSE 403	Control.	4	ECSE 525	Satellite Navigation Systems . ¹	4
ECSE 408	Communication Systems.	4	ECSE 526	Artificial Intelligence.	3
ECSE 412	Discrete Time Signal Processing.	3	ECSE 532	Computer Graphics.	4
ECSE 415	Introduction to Computer Vision.	3	ECSE 551	Machine Learning for Engineers.	4
ECSE 416	Telecommunication Networks.	4	ECSE 552	Deep Learning.	4
ECSE 420	Parallel Computing.	3	ECSE 554	Applied Robotics .	4
ECSE 428	Software Engineering Practice.	3	ECSE 556	Machine Learning in Network Biology.	4
ECSE 435	Mixed-Signal Test Techniques.	3	ECSE 557	Introduction to Ethics of Intelligent Systems.	3

ECSE 561	Automated Program Analysis and Testing.	3
ECSE 575	Heterogeneous Integration Systems.	3
MATH 247	Honours Applied Linear Algebra.	3

- ¹ COMP 424 Artificial Intelligence. and ECSE 526 Artificial Intelligence.
² cannot both be taken.
² ECSE 551 Machine Learning for Engineers. and COMP 551 Applied Machine Learning. cannot both be taken.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
BTEC 502	Biotechnology Ethics and Society.	3
COMS 200	History of Communication.	3
COMS 411	Disability, Technology and Communication. ¹	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change.	3
ENVR 201	Society, Environment and Sustainability. ²	3
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 302	Environmental Management 1.	3
INSY 331	Managing and Organizing Digital Technology. ³	3
INSY 334	Design Thinking for User Experience.	3
INSY 455	Technology and Innovation for Sustainability.	3
LLCU 212	Understanding Digital and Social Media.	3
MGCR 331	Information Technology Management . ¹	3
MGPO 440	Strategies for Sustainability.	3
MGPO 460	Managing Innovation.	3
PHIL 343	Biomedical Ethics.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
SEAD 500	Foundations of Sustainability for Engineering and Design.	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SOCI 235	Technology and Society.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3

*Note: Enrolment in certain courses is subject to permission from the offering department.

¹ Note: Prerequisites will be strictly applied.

² Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importandates>

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship. ¹	3
INDR 294	Introduction to Labour-Management Relations. ¹	3
INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3
MGCR 222	Introduction to Organizational Behaviour. ¹	3
MGCR 352	Principles of Marketing. ¹	3
ORGB 321	Leadership. ¹	3
ORGB 420	Managing Organizational Teams. ¹	3
ORGB 423	Human Resources Management. ¹	3

Faculty of Science

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. <small>3</small>	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

[Expand all](#)[Contract all](#)

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

Note: Restriction applies to the courses that are reserved for the majors and the Honours.

- ¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>
- ² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.
- ³ Note: ENVR courses have limited enrolment.

Elective Course (3 credits)

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Co-op in Software Engineering (B.Eng.) (141 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 141-144 credits

Program Description

The B.Eng. Co-op in Software Engineering program focuses on the skills needed to design and develop complex software systems, and it includes mandatory co-op terms. The program emphasizes the application of the principles and techniques of engineering, computer science, and mathematical analysis to cover the lifecycle of engineering modern software applications.

Required Year 0 (Freshman) Courses (28 credits)

Generally, students admitted to Engineering from Quebec CEGEPs may be granted transfer credit for Year 0 courses

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://>

www.mcgill.ca/engineering/current-students/undergraduate/new-stud... and select your term of admission.

[Expand all](#)[Contract all](#)

Course	Title	Credits
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

AND 3 credits Natural Science complementary courses chosen from courses from the following science departments, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering:

Atmospheric and Oceanic Sciences (ATOC)

Biology (BIOL)

Chemistry (CHEM)

Earth and Planetary Sciences (EPSC)

Earth System Science (ESYS)

Physics (PHYS)

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (35 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 206	Introduction to Software Systems.	3
COMP 251	Algorithms and Data Structures.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 360	Algorithm Design.	3
COMP 421	Database Systems.	3
FACC 100	Introduction to the Engineering Profession.	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 240	Discrete Structures.	3
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
WCOM 206	Communication in Engineering.	3

- ¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.
- ² WCOM 206 Communication in Engineering. must be passed two terms prior to ECSE 201 Co-operative Work Term 1..

Required Software Engineering Courses (58 credits)

Expand allContract all

Course	Title	Credits
ECSE 200	Electric Circuits 1.	3
ECSE 201	Co-operative Work Term 1.	2
ECSE 205	Probability and Statistics for Engineers	3
ECSE 211	Design Principles and Methods.	3
ECSE 222	Digital Logic.	3
ECSE 223	Model-Based Programming.	3
ECSE 250	Fundamentals of Software Development.	3
ECSE 301	Co-operative Work Term 2.	2
ECSE 310	Thermodynamics of Computing.	3
ECSE 316	Signals and Networks.	3
ECSE 321	Introduction to Software Engineering.	3
ECSE 324	Computer Organization.	4
ECSE 326	Software Requirements Engineering.	3
ECSE 401	Co-operative Work Term 3.	2
ECSE 420	Parallel Computing.	3
ECSE 427	Operating Systems.	3
ECSE 428	Software Engineering Practice.	3
ECSE 429	Software Validation.	3
ECSE 458D1	Capstone Design Project.	3
ECSE 458D2	Capstone Design Project.	3

Note: ECSE 458N1 Capstone Design Project. and ECSE 458N2 Capstone Design Project. can be taken instead of ECSE 458D1 Capstone Design Project. and ECSE 458D2 Capstone Design Project..

Complementary Courses (17-20 credits)

Technical Complementaries

11-14 credits (4 courses) must be taken, chosen as follows:

3-4 credits (1 course) from List A

8-11 credits (3 courses) from List A or List B

List A

3-4 credits from the following:

Expand allContract all

Course	Title	Credits
ECSE 325	Digital Systems.	3
ECSE 415	Introduction to Computer Vision.	3
ECSE 416	Telecommunication Networks.	4

ECSE 439	Software Language Engineering.	3
ECSE 444	Microprocessors.	4
ECSE 472	Fundamentals of Circuit Simulation and Modelling.	3
ECSE 544	Computational Photography.	4

List B

0-11 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 307	Principles of Web Development.	3
COMP 330	Theory of Computation. ¹	3
COMP 350	Numerical Computing.	3
COMP 370	Introduction to Data Science.	3
COMP 409	Concurrent Programming.	3
COMP 417	Introduction Robotics and Intelligent Systems. ²	3
COMP 424	Artificial Intelligence.	3
COMP 512	Distributed Systems.	4
COMP 520	Compiler Design.	4
COMP 521	Modern Computer Games.	4
COMP 525	Formal Verification.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 547	Cryptography and Data Security.	4
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 550	Natural Language Processing. ¹	3
COMP 551	Applied Machine Learning.	4
COMP 559	Fundamentals of Computer Animation.	4
COMP 562	Theory of Machine Learning.	4
COMP 588	Probabilistic Graphical Models.	4
ECSE 343	Numerical Methods in Engineering.	3
ECSE 402	Co-operative Work Term 4.	2
ECSE 421	Embedded Systems.	3
ECSE 422	Fault Tolerant Computing.	3
ECSE 424	Human-Computer Interaction.	3
ECSE 425	Computer Architecture.	3
ECSE 437	Software Delivery.	3
ECSE 446	Realistic Image Synthesis.	3
ECSE 507	Optimization and Optimal Control.	3
ECSE 520	Information Theory and Coding.	3
ECSE 509	Probability and Random Signals 2.	3
ECSE 525	Satellite Navigation Systems. ²	4
ECSE 526	Artificial Intelligence.	3
ECSE 532	Computer Graphics.	4
ECSE 551	Machine Learning for Engineers. ³	4
ECSE 552	Deep Learning.	4

ECSE 554	Applied Robotics .	4
ECSE 556	Machine Learning in Network Biology.	4
ECSE 557	Introduction to Ethics of Intelligent Systems.	3
ECSE 561	Automated Program Analysis and Testing.	3
MATH 247	Honours Applied Linear Algebra.	3

- ¹ COMP 350 Numerical Computing. and ECSE 343 Numerical Methods in Engineering. cannot both be taken
² COMP 424 Artificial Intelligence. and ECSE 526 Artificial Intelligence.
³ cannot both be taken
 ECSE 551 Machine Learning for Engineers. and COMP 551 Applied Machine Learning. cannot both be taken

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits	
ANTH 212	Anthropology of Development.	3	Art History & Communications (ARTH and COMS)
ARCH 515	Sustainable Design.	3	East Asian Studies (EAST)
BTEC 502	Biotechnology Ethics and Society.	3	Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*
COMS 200	History of Communication.	3	French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)
COMS 411	Disability, Technology and Communication.	3	French Language Center (FRSL courses 200 level or higher)
ECON 225	Economics of the Environment.	3	History and Classical Studies (HIST and CLAS) excluding HIST 339
ECON 347	Economics of Climate Change.	3	Inst for Gender, Sex & Fem St (GSFS)
ENVR 201	Society, Environment and Sustainability.	3	Institute for Study of Canada (CANS, and INDG)
GEOG 203	Environmental Systems.	3	Islamic Studies (AFRI, and ISLA)
GEOG 205	Global Change: Past, Present and Future.	3	Jewish Studies (JWST)
GEOG 302	Environmental Management 1.	3	Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)
INSY 331	Managing and Organizing Digital Technology.	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
INSY 334	Design Thinking for User Experience.	3	Political Science (POLI) (excluding POLI 311)
INSY 455	Technology and Innovation for Sustainability.	3	Religious Studies (CATH and RELG)
LLCU 212	Understanding Digital and Social Media.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGCR 331	Information Technology Management .	3	OR from the following list:
MGPO 440	Strategies for Sustainability.	3	OR from the following:
MGPO 460	Managing Innovation.	3	Desautels Faculty of Management
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	Expand allContract all
PHIL 343	Biomedical Ethics.	3	Course
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Title
SEAD 530	Economics for Sustainability in Engineering and Design.	3	Credits
SOCI 235	Technology and Society.	3	¹ BUSA 465 Technological Entrepreneurship. 3
SOCI 312	Sociology of Work and Industry.	3	¹ INDR 294 Introduction to Labour-Management Relations. 3
SOCI 325	Sociology of Science.	3	² INTG 215 Entrepreneurship Essentials for Non-Management Students. 3

*Note: Enrolment in certain courses is subject to permission from the offering department.

¹

² Note: Prerequisites will be strictly applied.

³ Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importandates>

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

OR from the following:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	¹ 3
INDR 294	Introduction to Labour-Management Relations.	¹ 3
INTG 215	Entrepreneurship Essentials for Non-Management Students.	² 3

MGCR 222	Introduction to Organizational Behaviour. ¹	3	McGill University in Canada), to provide training in the solution of complex scientific/engineering problems that can be undertaken in interdisciplinary teams, in global settings.
MGCR 352	Principles of Marketing. ¹	3	
ORGB 321	Leadership. ¹	3	
ORGB 420	Managing Organizational Teams. ¹	3	
ORGB 423	Human Resources Management. ¹	3	

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Note: Restriction applies to courses that are reserved for the majors and Honours.

- ¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>
 Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.
³ Note: ENVR course have limited enrolment.

Elective Course (3 credits)

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Global Engineering (B.G.E.) (127 credits)

Offered by: Engineering - Dean's Office (Faculty of Engineering)

Degree: Bachelor of Global Engineering

Program credit weight: 120-127 credits

Program Description

The Bachelor of Global Engineering is designed to provide a combination of hard, technical skills in science and engineering, combined with soft, non-technical skills in the humanities, business/management, and languages. The program focuses on: 1) a strong foundation in mathematics, and all three principal scientific disciplines (physics, chemistry and biology), and 2) specialized engineering training in one of nine streams (Breadth, Biological, Chemical, Civil, Data Science, Electrical, Entrepreneurship, Materials and Mechanical). Moreover, the program is offered, by design, in an international setting (two years at CentraleSupélec in France, and two years at

Required Year 0 and Year 1 Courses

60 credits (120 ECTS credits)

Years 0 and 1 of the program take place at CentraleSupélec, in France, and the required Year 0 and Year 1 courses will be taken there. All remaining courses will be taken at McGill.

Course	Title	Credits
GEAC 211	Introduction to Automation and Control	1.5
GEAC 212	Robotics Bootcamp	1.5
GEBI 111	Cell Biology	1.5
GEBI 121	Genetics	1.25
GEBI 211	Introduction to Bioengineering	1.25
GEBI 221	Ecosystems and Biodiversity	1
GECH 111	General Chemistry: Atomistics and Bonding	0.5
GECH 112	Chemistry of Solutions	0.75
GECH 121	Oxidation, Reduction and Electrochemistry	0.75
GECH 211	Thermochemistry	0.75
GECS 111	Introduction to Programming	1
GECS 112	Coding Weeks	1.5
GECS 121	Algorithms	0.75
GECS 122	Fundamentals of programming: Information Systems	0.75
GECS 221	Advanced Programming	0.75
GECS 222	Machine Learning	0.75
GEEC 221	Organizational Behavior Week	0.5
GEEC 222	Economics of Corporations	1
GEEC 223	Business Games Week	0.5
GEEE 221	Elective	1
GEHS 111	Philosophy, Ethics and Critical Thinking 1&2	1
GEHS 121	Topics in International Sustainable Development	1
GEHS 211	Perspectives of Modern Geopolitics 1	1
GEHS 221	Structure of Corporations	1
GEIN 121	Internship - Social Impact	1.25
GEIN 221	Enterprise Discovery	1.25
GEMA 111	Analysis 1	1.75
GEMA 112	Analysis 2	1.75
GEMA 121	Analysis 3	1.75
GEMA 122	Probability	1.75
GEMA 211	Linear Algebra	1.75
GEMA 221	Numerical Analysis	1.5

GEMA 222	Continuous Probability & Intro to Statistical Modelling	1.5
GEML 111	Modern Languages 1	0.75
GEML 121	Modern Languages 2	0.75
GEML 211	Modern Languages 3	0.75
GEMO 111	Introduction to Modelling	1.5
GEMO 211	Data and Modelling Week	1.5
GEPH 111	Introduction to classical mechanics	1.5
GEPH 112	Electric circuits	1.25
GEPH 121	Thermodynamics	1.25
GEPH 122	Physics of Waves	1.25
GEPH 211	Electromagnetism and Conduction	1.5
GEPH 212	Electromagnetism and Waves	1.5
GEPH 221	Wave Optics	1.25
GEPM 121	Project Management 1	0.75
GEPM 122	Project Management 2	0.75
GEPR 121	Project-Sustainable Development	0.75
GEPR 221	Research and Design Project	2
GESP 111	Sport 1	0.25
GESP 121	Sport 2	0.25
GESP 211	Sport 3	0.25
GESP 221	Sport 4	0.25

Year 2 and Year 3 Courses

60-67 credits

The following Year 2 and Year 3 courses will be taken at McGill University.

Required Non-Departmental Courses

6 credits

Expand allContract all		
Course	Title	Credits
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3

WCOM 206	Communication in Engineering.	3
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Required Faculty of Engineering Courses

4 credits

Expand allContract all		
Course	Title	Credits
FACC 200	Industrial Practicum 1.	0
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1

Complementary Courses (50-57 credits)

Global Engineering Technical Complementary Courses

41-53 credits

Upon their arrival at McGill in the third year, each student will take 41-53 credits in one of nine streams:

1. Breadth (p. 508)
2. Biological (p. 509)
3. Chemical (p. 509)
4. Civil (p. 509)
5. Data Science (p. 509)
6. Electrical (p. 510)
7. Entrepreneurship (p. 510)
8. Materials (p. 510)
9. Mechanical (p. 511)

The choice of stream will have been determined in advance, at the end of their second year of studies at CentraleSupélec. All streams have (stream-specific) core courses. Some streams have stream-specific technical complementaries and/or sustainability complementaries.

Stream 1: Breadth

45-48 credits (14 courses) must be taken, chosen as follows:

30 credits (9 courses) from List A

9-11 credits (3 courses) from List B

6-7 credits (2 courses) from List C

List A: Breadth Stream Core

30 credits

Expand allContract all

Course	Title	Credits
BIEN 219	Introduction to Physical Molecular and Cell Biology.	4
CHEE 231	Data Analysis and Design of Experiments.	3
CIVE 207	Solid Mechanics.	4
ECSE 206	Introduction to Signals and Systems.	3
FACC 463D1	Engineering Design Project.	3
FACC 463D2	Engineering Design Project.	3
MECH 220	Mechanics 2.	4
MECH 309	Numerical Methods in Mechanical Engineering. ¹	3
MIME 260	Materials Science and Engineering. ¹	3
MIME 261	Structure of Materials.	3

¹ If chosen, students select either MIME 260 or MIME 261.

List B: Breadth Stream Technical Complementaries

9-11 credits

Expand allContract all

Course	Title	Credits
BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3
CHEE 370	Elements of Biotechnology.	3

ECSE 308	Introduction to Communication Systems and Networks.	4	CHEE 380	Materials Science.	3
ECSE 353	Electromagnetic Fields and Waves.	3	CHEE 390	Computational Methods in Chemical Engineering.	3
MECH 331	Fluid Mechanics 1.	3	CHEE 423	Chemical Reaction Engineering.	3
MIME 356	Heat, Mass and Fluid Flow.	4	CHEE 453	Process Design.	4
			CHEM 234	Topics in Organic Chemistry.	3
			FACC 463D1	Engineering Design Project.	3
			FACC 463D2	Engineering Design Project.	3

List C: Breadth Stream Sustainability Complementaries

6-7 credits

Expand allContract all

Course	Title	Credits	Stream 4: Civil		
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	47 credits		
SEAD 510	Energy Analysis.	4	Expand allContract all		
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3			
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3			

Stream 2: Biological

41 credits

Expand allContract all

Course	Title	Credits	Stream 4: Civil		
BIEN 210	Electrical and Optical Properties of Biological Systems.	3	47 credits		
BIEN 219	Introduction to Physical Molecular and Cell Biology.	4	Expand allContract all		
BIEN 267	Bioanalytical Methods in Bioengineering.	3			
BIEN 290	Bioengineering Measurement Laboratory.	3			
BIEN 300	Thermodynamics in Bioengineering.	3			
BIEN 314	Transport Phenomena in Biological Systems 1.	3			
BIEN 340	Transport Phenomena in Biological Systems 2.	3			
BIEN 350	Biosignals, Systems and Control.	4			
BIEN 360	Physical Chemistry in Bioengineering.	3			
BIEN 390	Bioengineering Laboratory.	3			
BIEN 420	Biodevices Design for Diagnostics and Screening.	3			
BIEN 470D1	Bioengineering Design Project.	3			
BIEN 470D2	Bioengineering Design Project.	3			

Stream 3: Chemical

44 credits

Expand allContract all

Course	Title	Credits	Stream 5: Data Science		
CHEE 200	Chemical Engineering Principles 1.	3	46-47 credits		
CHEE 204	Chemical Engineering Principles 2.	3	Expand allContract all		
CHEE 220	Chemical Engineering Thermodynamics.	3			
CHEE 291	Instrumentation and Measurement 1.	4			
CHEE 314	Fluid Mechanics.	3			
CHEE 315	Heat and Mass Transfer.	3			
CHEE 351	Separation Processes.	3			

MATH 240	Discrete Structures.	3
MECH 559	Engineering Systems Optimization. ¹	3
MECH 579	Numerical Optimization	3

¹ If chosen, students select one of ECSE 507, MECH 559 or MECH 579.

² If chosen, students select either one of ECSE 526 or ECSE 551.

Stream 6: Electrical

47-48 credits (14 courses) must be taken, chosen as follows:

44 credits (13 courses) from List A
3-4 credits (1 course) from List B

List A: Electrical Stream Core

44 credits

Expand allContract all

Course	Title	Credits
ECSE 206	Introduction to Signals and Systems.	3
ECSE 210	Electric Circuits 2.	3
ECSE 222	Digital Logic.	3
ECSE 307	Linear Systems and Control.	4
ECSE 308	Introduction to Communication Systems and Networks.	4
ECSE 324	Computer Organization.	4
ECSE 331	Electronics.	4
ECSE 343	Numerical Methods in Engineering.	3
ECSE 353	Electromagnetic Fields and Waves.	3
ECSE 362	Fundamentals of Power Engineering.	4
ECSE 412	Discrete Time Signal Processing.	3
ECSE 458D1	Capstone Design Project.	3
ECSE 458D2	Capstone Design Project.	3

List B: Electrical Stream Technical Complementaries

3-4 credits

Expand allContract all

Course	Title	Credits
COMP 417	Introduction Robotics and Intelligent Systems.	3
ECSE 335	Microelectronics. ¹	4
ECSE 403	Control.	4
ECSE 408	Communication Systems.	4
ECSE 416	Telecommunication Networks.	4
ECSE 433	Physical Basis of Transistor Devices.	4
ECSE 444	Microprocessors.	4
ECSE 470	Electromechanical and Static Conversion Systems.	4
MECH 412	System Dynamics and Control. ¹	3
MECH 572	Mechanics and Control of Robotic Manipulators.	3
MECH 573	Mechanics of Robotic Systems.	3
MIME 262	Properties of Materials in Electrical Engineering.	3

¹ If chosen, students select one of ECSE 403 or MECH 412.

Stream 7: Entrepreneurship

53 credits (16 courses) must be taken, chosen as follows:

50 credits (15 courses) from List A

3 credits (1 course) from List B

List A: Entrepreneurship Stream Core

50 credits

Expand allContract all

Course	Title	Credits
BIEN 310	Introduction to Biomolecular Engineering.	3
CHEE 231	Data Analysis and Design of Experiments.	3
CIVE 207	Solid Mechanics.	4
ECSE 206	Introduction to Signals and Systems.	3
ECSE 308	Introduction to Communication Systems and Networks.	4
FACC 463D1	Engineering Design Project.	3
FACC 463D2	Engineering Design Project.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3
MECH 220	Mechanics 2.	4
MECH 289	Design Graphics.	3
MGPO 362	Fundamentals of Entrepreneurship.	3
MIME 260	Materials Science and Engineering. ¹	3
MIME 261	Structure of Materials. ¹	3
MIME 356	Heat, Mass and Fluid Flow.	4
MECH 309	Numerical Methods in Mechanical Engineering.	3

¹ If chosen, students select either MIME 260 or MIME 261.

List B: Entrepreneurship Stream Technical Complementaries

3 credits

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
LAWG 570	Innovation for Non-Law Students.	3
MGPO 364	Entrepreneurship in Practice.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
ORGB 321	Leadership.	3

Stream 8: Materials

46 credits (15 courses) must be taken, chosen as follows:

40 credits (13 courses) from List A

6 credits (2 courses) from List B

List A: Materials Stream Core

40 credits

Expand allContract all

Course	Title	Credits	List B: Mechanical Stream Technical Complementaries
FACC 463D1	Engineering Design Project.	3	6-8 credits
FACC 463D2	Engineering Design Project.	3	Expand allContract all
MECH 290	Design Graphics for Mechanical Engineering.	3	Course
MIME 212	Engineering Thermodynamics.	3	Title
MIME 250	Introduction to Extractive Metallurgy.	3	COMP 417 Introduction Robotics and Intelligent Systems. 3
MIME 261	Structure of Materials.	3	ECSE 307 Linear Systems and Control. 4
MIME 311	Modelling and Automatic Control.	3	ECSE 461 Electric Machinery. 3
MIME 317	Analytical and Characterization Techniques.	3	MECH 292 Design 1: Conceptual Design. 3
MIME 341	Introduction to Mineral Processing.	3	MECH 314 Dynamics of Mechanisms. 3
MIME 352	Hydrochemical Processing.	3	MECH 315 Intermediate Dynamics 4
MIME 356	Heat, Mass and Fluid Flow.	4	MECH 321 Mechanics of Deformable Solids. 3
MIME 360	Phase Transformations: Solids.	3	MECH 341 Thermodynamics 2. 3
MIME 455	Advanced Process Engineering.	3	MECH 346 Heat Transfer. 3
List B: Materials Stream Technical Complementaries		MECH 383 Applied Electronics and Instrumentation. 3	
6 credits		MECH 412 System Dynamics and Control. 3	
Expand allContract all		MECH 572 Mechanics and Control of Robotic Manipulators. 3	
		MECH 573 Mechanics of Robotic Systems. 3	
Course	Title	Credits	Complementary Studies
MIME 345	Applications of Polymers.	3	3-9 credits
MIME 350	Extractive Metallurgical Engineering.	3	Group A - Impact of Technology on Society (All streams)
MIME 362	Mechanical Properties.	3	3 credits from the following:
MIME 465	Metallic and Ceramic Powders Processing.	3	Expand allContract all
MIME 467	Electronic Properties of Materials.	3	Course
MIME 470	Engineering Biomaterials.	3	Title
MIME 473	Introduction to Computational Materials Design.	3	Credits
Stream 9: Mechanical		ANTH 212 Anthropology of Development. 3	
44-46 credits (14 courses) must be taken, chosen as follows:		ARCH 515 Sustainable Design. 3	
38 credits (12 courses) from List A		BTEC 502 Biotechnology Ethics and Society. 3	
6-8 credits (2 courses) from List B		COMS 200 History of Communication. 3	
List A: Mechanical Stream Core		COMS 411 Disability, Technology and Communication. 3 ¹	
38 credits		ECON 225 Economics of the Environment. 3	
Expand allContract all		ECON 347 Economics of Climate Change. 3	
		ENVR 201 Society, Environment and Sustainability. 3 ²	
		GEOG 203 Environmental Systems. 3	
		GEOG 205 Global Change: Past, Present and Future. 3	
		GEOG 302 Environmental Management 1. 3 ³	
		INSY 331 Managing and Organizing Digital Technology. 3	
		INSY 334 Design Thinking for User Experience. 3	
		INSY 455 Technology and Innovation for Sustainability. 3	
		LLCU 212 Understanding Digital and Social Media. 3	
		MGCR 331 Information Technology Management . 3	
		MGPO 440 Strategies for Sustainability. 3 ¹	
		MGPO 460 Managing Innovation. 3	
		MGPO 485 Emerging Technologies: Organizing and Societal Stakes. 3	
		PHIL 343 Biomedical Ethics. 3	
MIME 260 Materials Science and Engineering.			

SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Desautels Faculty of Management		
SEAD 530	Economics for Sustainability in Engineering and Design.	3	Expand allContract all		
SOCI 235	Technology and Society.	3	Course	Title	Credits
SOCI 312	Sociology of Work and Industry.	3	BUSA 465	Technological Entrepreneurship. ¹	3
SOCI 325	Sociology of Science.	3	INDR 294	Introduction to Labour-Management Relations. ¹	3
			INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3
			MGCR 222	Introduction to Organizational Behaviour. ¹	3
			MGCR 352	Principles of Marketing. ¹	3
			ORGB 321	Leadership. ¹	3
			ORGB 420	Managing Organizational Teams. ¹	3
			ORGB 423	Human Resources Management. ¹	3

Note: Enrolment in certain courses is subject to permission from the offering department.

¹ Note: Prerequisites will be strictly applied.

² Note: ENVR courses have limited enrolment.

³ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Group B - Humanities and Social Sciences, Management Studies and Law (All streams except Entrepreneurship stream)

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Restriction applies to the courses that are reserved for the majors and Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Mechanical Engineering (B.Eng.) (142 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 142 credits

Program Description

The B.Eng. in Mechanical Engineering encompasses the following fundamental disciplines: design and manufacturing, materials and solid mechanics, thermodynamics and fluid mechanics, dynamics and control, mechatronics, mathematics and computational modelling. Application of engineering principles to the solution of practical problems through experimentation, design, and manufacturing.

Areas of focus include industrial engineering, numerical methods, controls and robotics, bioengineering, aeronautics, energy systems, and systems engineering.

Required Year 0 Courses (25 credits)

Generally, students admitted to Engineering from Quebec CEGEPs may be granted transfer credit for these Year 0 courses.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Required Non-Departmental Courses (36 credits)

Expand allContract all

Course	Title	Credits
BIEN 203	Introduction to Statistics and Data Science	3
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
ECSE 209	Electrotechnology.	3
FACC 100	Introduction to the Engineering Profession.	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MATH 271	Linear Algebra and Partial Differential Equations.	3
MIME 260	Materials Science and Engineering.	3
WCOM 206	Communication in Engineering.	3

Required Mechanical Engineering Courses (60 credits)

Expand allContract all

Course	Title	Credits
MECH 215	Statics	3
MECH 220	Mechanics 2.	4
MECH 241	Fundamentals of Thermodynamics	4
MECH 265	Numerical Linear Algebra	3
MECH 290	Design Graphics for Mechanical Engineering.	3
MECH 292	Design 1: Conceptual Design.	3
MECH 301	Mechatronics	4
MECH 315	Intermediate Dynamics	4
MECH 332	Fundamentals of Fluid Mechanics	4
MECH 346	Heat Transfer.	3
MECH 360	Principles of Manufacturing.	3
MECH 390	Computer Aided Design	3
MECH 415	Applied Solid Mechanics	4
MECH 421	Dynamics and Control	4
MECH 441	Applied Thermofluids	4
MECH 463D1	Design 3: Mechanical Engineering Project.	3
MECH 463D2	Design 3: Mechanical Engineering Project.	3
MECH 493	Machine Element Design	4

Technical Complementary Courses (15 credits)

6 credits at the 500 level or higher, chosen from Mechanical Engineering courses (subject code MECH).

9 credits chosen from courses at the 300 level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from courses in the Faculty of Science; or selected courses from Group A and Group B (approved by the Department).

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ARCH 515	Sustainable Design.	3
BTEC 502	Biotechnology Ethics and Society.	3
COMS 200	History of Communication.	3
COMS 411	Disability, Technology and Communication. ¹	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change.	3
ENVR 201	Society, Environment and Sustainability. ²	3
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 302	Environmental Management 1.	3
INSY 331	Managing and Organizing Digital Technology. ³	3
INSY 334	Design Thinking for User Experience.	3

INSY 455	Technology and Innovation for Sustainability.	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
LLCU 212	Understanding Digital and Social Media.	3	Political Science (POLI) (excluding POLI 311)
MGCR 331	Information Technology Management . ¹	3	Religious Studies (CATH and RELG)
MGPO 440	Strategies for Sustainability.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGPO 460	Managing Innovation.	3	OR from the following list:
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	Desautels Faculty of Management
PHIL 343	Biomedical Ethics.	3	Expand allContract all
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Course Title Credits
SEAD 530	Economics for Sustainability in Engineering and Design.	3	BUSA 465 Technological Entrepreneurship. 3
SOCI 235	Technology and Society.	3	INDR 294 Introduction to Labour-Management Relations. 3
SOCI 312	Sociology of Work and Industry.	3	INTG 215 Entrepreneurship Essentials for Non-Management Students. 3
SOCI 325	Sociology of Science.	3	MGCR 222 Introduction to Organizational Behaviour. 3
Note: Enrolment in certain courses is subject to permission from the offering department.			
¹	Prerequisites will be strictly applied.		MGCR 352 Principles of Marketing. 3
²	Note: ENVR courses have limited enrolment.		ORGB 321 Leadership. 3
³	Note: Management courses have limited enrolment and registration dates. See Important Dates at http://www.mcgill.ca/importantdates		ORGB 420 Managing Organizational Teams. 3
			ORGB 423 Human Resources Management. 3

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Note: Restriction applied to the courses that are reserve for the majors and Honours.

¹ Note: Management courses have limited enrolment and registration

² dates. See Important Dates at <http://www.mcgill.ca/importantdates>
Note: INTG 215 is not open to students who have taken INTG 201 and
³ INTG 202.

Note: ENVR courses have limited enrolment.

Mechanical Engineering Honours (B.Eng.) (142 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 142 credits

Program Description

This program is not currently offered

Program credit weight for Quebec CEGEP students: 113 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design Engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program is particularly suitable for those with a high aptitude in mathematics and physics and gives a thorough grounding in the basic engineering sciences.

Special interests are satisfied by selecting appropriate complementary courses from among those offered with a specific subject concentration, such as management, industrial engineering, computer science, controls and robotics, bio-engineering, aeronautics, combustion, systems engineering, etc.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs may be granted transfer credit for these Year 0 courses and enter a 113-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (27 credits)

Expand allContract all

Course	Title	Credits
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MATH 271	Linear Algebra and Partial Differential Equations.	3
WCOM 206	Communication in Engineering.	3

¹

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Mechanical Engineering Courses (62 credits)

Expand allContract all

Course	Title	Credits
MECH 215	Statics	3
MECH 220	Mechanics 2.	4
MECH 241	Fundamentals of Thermodynamics	4
MECH 262	Statistics and Measurement Laboratory.	3
MECH 292	Design 1: Conceptual Design.	3
MECH 309	Numerical Methods in Mechanical Engineering.	3
MECH 321	Mechanics of Deformable Solids.	3
MECH 331	Fluid Mechanics 1.	3
MECH 341	Thermodynamics 2.	3
MECH 346	Heat Transfer.	3
MECH 360	Principles of Manufacturing.	3
MECH 362	Mechanical Laboratory 1.	2
MECH 383	Applied Electronics and Instrumentation.	3
MECH 390	Computer Aided Design	3
MECH 403D1	Thesis (Honours).	3
MECH 403D2	Thesis (Honours).	3
MECH 404	Honours Thesis 2.	3
MECH 419	Advanced Mechanics of Systems.	4

MECH 430	Fluid Mechanics 2.	3	MECH 560	Eco-design and Product Life Cycle Assessment . ¹	3
MECH 494	Honours Design Project.	3	MECH 563	Biofluids and Cardiovascular Mechanics.	3
			MECH 564	Thermal Radiation and Solar Energy Systems.	3
			MECH 565	Fluid Flow and Heat Transfer Equipment.	3
			MECH 573	Mechanics of Robotic Systems.	3

Technical Complementary Courses (18 credits)

3 credits from the following, chosen with the approval of either the thesis supervisor or the coordinator of the Honours program, when a thesis supervisor has not yet been secured:

Expand allContract all

Course	Title	Credits
MATH 316	Complex Variables.	3
MATH 323	Probability.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 417	Linear Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
MECH 513	Control Systems.	3
MECH 546	Finite Element Methods in Solid Mechanics. ¹	3
MECH 559	Engineering Systems Optimization.	3
MECH 562	Advanced Fluid Mechanics.	3
MECH 578	Advanced Thermodynamics. ¹	3
MECH 579	Numerical Optimization	3

¹ Note: Students select either MECH 559 Engineering Systems Optimization. or MECH 579 Numerical Optimization.

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

Expand allContract all

Course	Title	Credits
CHEE 563	Biofluids and Cardiovascular Mechanics. ¹	3
MECH 497	Value Engineering.	3
MECH 498	Interdisciplinary Design Project 1.	3
MECH 499	Interdisciplinary Design Project 2.	3
MECH 513	Control Systems.	3
MECH 530	Mechanics of Composite Materials.	3
MECH 532	Aircraft Performance, Stability and Control.	3
MECH 535	Turbomachinery and Propulsion.	3
MECH 536	Aerospace Structures.	3
MECH 543	Design with Composite Materials.	3
MECH 544	Processing of Composite Materials.	3
MECH 553	Design and Manufacture of Microdevices.	3
MECH 559	Engineering Systems Optimization.	3

¹

Students choose either CHEE 563 Biofluids and Cardiovascular Mechanics. or MECH 563 Biofluids and Cardiovascular Mechanics.

3 credits chosen from courses at the 300-level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from MIME 260 Materials Science and Engineering. or from courses at the 300 level or higher in the Faculty of Science, including MATH courses.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ARCH 515	Sustainable Design.	3
BTEC 502	Biotechnology Ethics and Society.	3
COMS 200	History of Communication.	3
COMS 411	Disability, Technology and Communication. ¹	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change. ²	3
ENVR 201	Society, Environment and Sustainability. ²	3
GEOG 203	Environmental Systems.	3
GEOG 302	Environmental Management 1. ³	3
INSY 331	Managing and Organizing Digital Technology.	3
INSY 334	Design Thinking for User Experience.	3
INSY 455	Technology and Innovation for Sustainability.	3
LLCU 212	Understanding Digital and Social Media.	3
MGCR 331	Information Technology Management . ¹	3
MGPO 440	Strategies for Sustainability.	3
MGPO 460	Managing Innovation.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
PHIL 343	Biomedical Ethics.	3
SEAD 500	Foundations of Sustainability for Engineering and Design.	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SOCI 235	Technology and Society.	3
SOCI 312	Sociology of Work and Industry.	3
SOCI 325	Sociology of Science.	3

Note: Enrolment in certain courses is subject to permission from the offering department.

¹ Note: Prerequisites will be strictly applied.
² Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)

OR from the following list:

Desautels Faculty of Management

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship. ¹	3
INDR 294	Introduction to Labour-Management Relations. ¹	3

INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGCR 222	Introduction to Organizational Behaviour. ¹	3
MGCR 352	Principles of Marketing. ¹	3
ORGB 321	Leadership. ¹	3
ORGB 420	Managing Organizational Teams. ¹	3
ORGB 423	Human Resources Management. ¹	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

* Restriction applies to the courses that are reserved for the majors and Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Typical Program of Study

Students entering the program from CEGEP follow a different course of study from those entering from out of province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, see <http://www.mcgill.ca/mecheng/undergrad/curriculum>.

For all minors and concentrations, students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the minor or concentration.

Mechanical Engineering - Design (B.Eng.) (15 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 15

Program Description

****This program is not currently offered****

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

Students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Total concentration credit weight: 15-16 credits

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MECH 498	Interdisciplinary Design Project 1.	3
MECH 499	Interdisciplinary Design Project 2.	3

Complementary Courses

9-10 credits from the following:

Expand allContract all

Course	Title	Credits
ARCH 515	Sustainable Design.	3
CHEE 453	Process Design.	4
MECH 497	Value Engineering.	3
MECH 528	Product Design.	3
MECH 530	Mechanics of Composite Materials.	3
MECH 543	Design with Composite Materials.	3
MECH 565	Fluid Flow and Heat Transfer Equipment.	3
MECH 579	Numerical Optimization	3

Mechanical Engineering - Design Honours (B.Eng.) (15 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 15

Program Description

****This program is not currently offered****

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

Students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the concentration.

Total concentration credit weight: 15-16 credits

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MECH 498	Interdisciplinary Design Project 1.	3
MECH 499	Interdisciplinary Design Project 2.	3

Complementary Courses

9-10 credits from the following:

Expand allContract all

Course	Title	Credits
ARCH 515	Sustainable Design.	3
CHEE 453	Process Design.	4
MECH 497	Value Engineering.	3
MECH 528	Product Design.	3
MECH 530	Mechanics of Composite Materials.	3
MECH 543	Design with Composite Materials.	3
MECH 565	Fluid Flow and Heat Transfer Equipment.	3
MECH 579	Numerical Optimization	3

Materials Engineering (B.Eng.) (148 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 148 credits

Program Description

Program credit weight for Quebec CEGEP students: 119 credits

Students wanting to study Materials Engineering may only be admitted into the B.Eng.; Co-op in Materials Engineering program. There is no direct admission to the B.Eng.; Materials Engineering program (which does not include the work terms required for the Co-op program). Students can transfer from the B.Eng.; Co-op in Materials Engineering to the B.Eng.; Materials Engineering program once they have met certain requirements and obtained approval from the departmental adviser.

The department offers a Major in Materials Engineering leading to an accredited B.Eng. degree in Materials Engineering. Materials are used to enact every human technology and have shaped key eras in history. Major in Materials Engineering students will have the opportunity to learn the fundamental science and engineering of materials through the materials processing pipeline, including how to enrich mineral-poor ore, how to process the materials into the desired microstructures and compositions, and how to use these materials in various applications (aerospace, electronics, and biological systems). With the choice of technical complementary courses, students have an opportunity to specialize and strengthen key materials technologies or broaden their horizons and take courses from several interdisciplinary areas.

Students entering this program must plan their schedule of studies in consultation with a departmental advisor.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (36 credits)

Expand allContract all

Course	Title	Credits
CHEM 233	Topics in Physical Chemistry.	3
CIVE 205	Statics.	3
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering.	3
ECSE 209	Electrotechnology.	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MECH 289	Design Graphics.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Materials Engineering Courses (59 credits)

Expand allContract all

Course	Title	Credits
MIME 209	Mathematical Applications.	3
MIME 212	Engineering Thermodynamics.	3
MIME 250	Introduction to Extractive Metallurgy.	3
MIME 261	Structure of Materials.	3
MIME 311	Modelling and Automatic Control.	3
MIME 317	Analytical and Characterization Techniques.	3
MIME 341	Introduction to Mineral Processing.	3
MIME 345	Applications of Polymers.	3
MIME 350	Extractive Metallurgical Engineering.	3
MIME 352	Hydrochemical Processing.	3
MIME 356	Heat, Mass and Fluid Flow.	4
MIME 360	Phase Transformations: Solids.	3
MIME 362	Mechanical Properties.	3
MIME 452	Process and Materials Design.	4
MIME 455	Advanced Process Engineering.	3
MIME 465	Metallic and Ceramic Powders Processing.	3
MIME 467	Electronic Properties of Materials.	3
MIME 470	Engineering Biomaterials.	3
MIME 473	Introduction to Computational Materials Design.	3

Complementary Courses (24 credits)

Technical Complementaries (18 credits)

12-18 credits from the following:

Course	Title	Credits
CHEE 515	Interface Design: Biomimetic Approach. ¹	3
CIVE 512	Advanced Civil Engineering Materials.	3
MECH 530	Mechanics of Composite Materials.	3
MIME 410	Materials Research Project.	3
MIME 442	Analysis, Modelling and Optimization in Mineral Processing.	3
MIME 456	Steelmaking and Steel Processing.	3
MIME 512	Corrosion and Degradation of Materials.	3
MIME 515	(Bio)material Surface Analysis and Modification. ¹	3
MIME 526	Mineral Economics.	3
MIME 542	Transmission Electron Microscopy.	3
MIME 544	Analysis: Mineral Processing Systems 1.	3
MIME 545	Analysis: Mineral Processing Systems 2.	3
MIME 556	Sustainable Materials Processing.	3
MIME 559	Aluminum Physical Metallurgy.	3
MIME 560	Joining Processes.	3

MIME 561	Advanced Materials Design.	3	SOCI 312	Sociology of Work and Industry.	3			
MIME 563	Hot Deformation of Metals.	3	SOCI 325	Sociology of Science.	3			
MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3	Note: Enrolment in certain courses is subject to permission from the offering department.					
MIME 568	Topics in Advanced Materials.	3	¹ ² Note: Prerequisites will be strictly applied. ³ Note: ENVR courses have limited enrolment.	Note: Management courses have limited enrolment and registration dates. See Important Dates at http://www.mcgill.ca/importantdates	3			
MIME 569	Electron Beam Analysis of Materials.	3						
MIME 570	Micro- and Nano-Fabrication Fundamentals.	3						
MIME 571	Surface Engineering.	3						
MIME 572	Computational Thermodynamics.	3						
MIME 580	Additive Manufacturing Using Metallic and Ceramic Materials.	3						

¹ Students choose either CHEE 515 Interface Design: Biomimetic Approach, or MIME 515 (Bio)material Surface Analysis and Modification., offered in alternate years.

6 credits may be taken from courses outside of the Department of Mining and Materials Engineering, with department approval.

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits	
ANTH 212	Anthropology of Development.	3	Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*
ARCH 515	Sustainable Design.	3	French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)
BTEC 502	Biotechnology Ethics and Society.	3	French Language Center (FRSL courses 200 level or higher)
COMS 200	History of Communication.	3	History and Classical Studies (HIST and CLAS) excluding HIST 339
COMS 411	Disability, Technology and Communication.	3	Inst for Gender, Sex & Fem St (GSFS)
ECON 225	Economics of the Environment.	3	Institute for Study of Canada (CANS, and INDG)
ECON 347	Economics of Climate Change.	3	Islamic Studies (AFRI, and ISLA)
ENVR 201	Society, Environment and Sustainability.	3	Jewish Studies (JWST)
GEOG 203	Environmental Systems.	3	Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)
GEOG 302	Environmental Management 1.	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
GEOG 205	Global Change: Past, Present and Future.	3	Political Science (POLI) (excluding POLI 311)
INSY 331	Managing and Organizing Digital Technology.	3	Religious Studies (CATH and RELG)
INSY 334	Design Thinking for User Experience.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
INSY 455	Technology and Innovation for Sustainability.	3	OR from the following list:
LLCU 212	Understanding Digital and Social Media.	3	Desautels Faculty of Management
MGPO 440	Strategies for Sustainability.	3	Expand allContract all
MGPO 460	Managing Innovation.	3	Course Title Credits
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	BUSA 465 Technological Entrepreneurship. ¹ 3
PHIL 343	Biomedical Ethics.	3	INDR 294 Introduction to Labour-Management Relations. ¹ 3
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	
SEAD 530	Economics for Sustainability in Engineering and Design.	3	
SOCI 235	Technology and Society.	3	

INTG 215	Entrepreneurship Essentials for Non-Management Students.	3	courses, students have an opportunity to specialize and strengthen key materials technologies or broaden their horizons and take courses from several interdisciplinary areas.
MGCR 222	Introduction to Organizational Behaviour. ¹	3	
MGCR 352	Principles of Marketing. ¹	3	Students entering this program must plan their schedule of studies in consultation with a departmental advisor.
ORGB 420	Managing Organizational Teams. ¹	3	
ORGB 423	Human Resources Management. ¹	3	

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought. ³	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

*Note: Restriction applies to the courses that are reserved for the majors and Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>
² Note: INTG is not open to students who have taken INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (36 credits)

Expand allContract all

Course	Title	Credits
CHEM 233	Topics in Physical Chemistry.	3
CIVE 205	Statics.	3
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
ECSE 209	Electrotechnology.	3
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3

Co-op in Materials Engineering (B.Eng.) (148 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 148 credits

Program Description

Program credit weight for Quebec CEGEP students: 119 credits

The Department offers a Co-op in Materials Engineering program leading to an accredited B.Eng. degree in Materials Engineering. Materials are used to enact every human technology and have shaped key areas of history. In the Co-op in Materials Engineering, students will have the opportunity to learn the fundamental science and engineering of materials and complete three work-term semesters. The program spans the materials processing pipeline, teaching students how to enrich mineral-poor ore, then to process the materials into the desired microstructures and compositions and finally how to use these materials in various applications (aerospace, electronics and biological systems). With the choice of technical complementary

MECH 289	Design Graphics.	3	MIME 515	(Bio)material Surface Analysis and Modification. ¹	3
WCOM 206	Communication in Engineering.	3	MIME 526	Mineral Economics.	3
¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.					
MIME 542	Transmission Electron Microscopy.	3	MIME 544	Analysis: Mineral Processing Systems 1.	3
MIME 545	Analysis: Mineral Processing Systems 2.	3	MIME 553	Impact of Materials Production.	3
MIME 556	Sustainable Materials Processing.	3	MIME 559	Aluminum Physical Metallurgy.	3
MIME 560	Joining Processes.	3	MIME 561	Advanced Materials Design.	3
MIME 563	Hot Deformation of Metals.	3	MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3
MIME 568	Topics in Advanced Materials.	3	MIME 569	Electron Beam Analysis of Materials.	3
MIME 570	Micro- and Nano-Fabrication Fundamentals.	3	MIME 571	Surface Engineering.	3
MIME 572	Computational Thermodynamics.	3	MIME 580	Additive Manufacturing Using Metallic and Ceramic Materials.	3

Required Materials Engineering Courses (65 credits)

Expand allContract all

Course	Title	Credits			
MIME 209	Mathematical Applications.	3	MIME 561	Advanced Materials Design.	3
MIME 212	Engineering Thermodynamics.	3	MIME 563	Hot Deformation of Metals.	3
MIME 250	Introduction to Extractive Metallurgy.	3	MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3
MIME 261	Structure of Materials.	3	MIME 568	Topics in Advanced Materials.	3
MIME 280	Industrial Training 1.	2	MIME 569	Electron Beam Analysis of Materials.	3
MIME 311	Modelling and Automatic Control.	3	MIME 570	Micro- and Nano-Fabrication Fundamentals.	3
MIME 317	Analytical and Characterization Techniques.	3	MIME 571	Surface Engineering.	3
MIME 341	Introduction to Mineral Processing.	3	MIME 572	Computational Thermodynamics.	3
MIME 345	Applications of Polymers.	3	MIME 580	Additive Manufacturing Using Metallic and Ceramic Materials.	3
MIME 350	Extractive Metallurgical Engineering.	3			
MIME 352	Hydrochemical Processing.	3			
MIME 356	Heat, Mass and Fluid Flow.	4			
MIME 360	Phase Transformations: Solids.	3			
MIME 362	Mechanical Properties.	3			
MIME 380	Industrial Training 2.	2			
MIME 452	Process and Materials Design.	4			
MIME 455	Advanced Process Engineering.	3			
MIME 465	Metallic and Ceramic Powders Processing.	3			
MIME 467	Electronic Properties of Materials.	3			
MIME 470	Engineering Biomaterials.	3			
MIME 473	Introduction to Computational Materials Design.	3			
MIME 480	Industrial Training 3.	2			

Complementary Courses (18 credits)

Technical Complementaries (12 credits)

9-12 credits from the following:

Expand allContract all

Course	Title	Credits			
CHEE 515	Interface Design: Biomimetic Approach. ¹	3	ANTH 212	Anthropology of Development.	3
CIVE 512	Advanced Civil Engineering Materials.	3	ARCH 515	Sustainable Design.	3
MECH 530	Mechanics of Composite Materials.	3	BTEC 502	Biotechnology Ethics and Society.	3
MIME 410	Materials Research Project.	3	COMS 200	History of Communication.	3
MIME 442	Analysis, Modelling and Optimization in Mineral Processing.	3	COMS 411	Disability, Technology and Communication. ¹	3
MIME 456	Steelmaking and Steel Processing.	3	ECON 225	Economics of the Environment.	3
MIME 512	Corrosion and Degradation of Materials.	3	ECON 347	Economics of Climate Change.	3
			ENVR 201	Society, Environment and Sustainability.	3
			GEOG 203	Environmental Systems.	3
			GEOG 205	Global Change: Past, Present and Future.	3
			GEOG 302	Environmental Management 1.	3
			INSY 331	Managing and Organizing Digital Technology. ³	3
			INSY 334	Design Thinking for User Experience.	3

¹ Students choose either CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification., offered in alternate years.

0-3 credits may be taken from courses outside of the Department of Mining and Materials Engineering, with departmental approval.

Complementary Studies (6 credits)

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all

Course	Title	Credits			
ANTH 212	Anthropology of Development.	3			
ARCH 515	Sustainable Design.	3			
BTEC 502	Biotechnology Ethics and Society.	3			
COMS 200	History of Communication.	3			
COMS 411	Disability, Technology and Communication. ¹	3			
ECON 225	Economics of the Environment.	3			
ECON 347	Economics of Climate Change.	3			
ENVR 201	Society, Environment and Sustainability.	3			
GEOG 203	Environmental Systems.	3			
GEOG 205	Global Change: Past, Present and Future.	3			
GEOG 302	Environmental Management 1.	3			
INSY 331	Managing and Organizing Digital Technology. ³	3			
INSY 334	Design Thinking for User Experience.	3			

INSY 455	Technology and Innovation for Sustainability.	3	Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)
LLCU 212	Understanding Digital and Social Media.	3	Political Science (POLI) (excluding POLI 311)
MGCR 331	Information Technology Management . ¹	3	Religious Studies (CATH and RELG)
MGPO 440	Strategies for Sustainability.	3	Sociology (SOCI) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGPO 460	Managing Innovation.	3	OR from the following list:
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	Desautels Faculty of Management
PHIL 343	Biomedical Ethics.	3	Expand allContract all
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Course Title Credits
SEAD 530	Economics for Sustainability in Engineering and Design.	3	BUSA 465 Technological Entrepreneurship. ¹ 3
SOCI 235	Technology and Society.	3	INDR 294 Introduction to Labour-Management Relations. ¹ 3
SOCI 312	Sociology of Work and Industry.	3	INTG 215 Entrepreneurship Essentials for Non-Management Students. ² 3
SOCI 325	Sociology of Science.	3	MGCR 222 Introduction to Organizational Behaviour. ¹ 3
Note: Enrolment in certain courses is subject to permission from the offering department.			
¹	Note: Prerequisites will be strictly applied.		
²	Note: ENVR courses have limited enrolment.		
³	Note: Management courses have limited enrolment and registration. See Important Dates at http://www.mcgill.ca/importantdates		

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Course	Title	Credits
BUSA 465	Technological Entrepreneurship. ¹	3
INDR 294	Introduction to Labour-Management Relations. ¹	3
INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3
MGCR 222	Introduction to Organizational Behaviour. ¹	3
MGCR 352	Principles of Marketing. ¹	3
ORGB 321	Leadership. ¹	3
ORGB 420	Managing Organizational Teams. ¹	3
ORGB 423	Human Resources Management. ¹	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought.	3
MATH 338	History and Philosophy of Mathematics.	3
PSYC 100	Introduction to Psychology.	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing.	3
FACC 220	Law for Architects and Engineers.	3
FACC 500	Technology Business Plan Design.	3
FACC 501	Technology Business Plan Project.	3

*Note: Restriction applies to the courses that are reserved for the majors and Honours.

¹ Note: Management courses have limited enrolment and registration

² dates. See Important Dates at <http://www.mcgill.ca/importantdates>
Note: INTG 215 is not open to students who have INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Mining Engineering (B.Eng.) (144 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)
Degree: Bachelor of Engineering

Program credit weight: 144 credits

Program Description

Enrolment in this program is subject to departmental approval, please consult with an Academic Advisor within the appropriate program further to discuss your suitability in this program.

The Department offers a Major in Mining Engineering Program leading to an accredited B.Eng. degree in Mining Engineering. The program focuses on the science and engineering of sustainable extraction of mineral resources. It contains two streams: English for non-CEGEP students and Bilingual (six courses in French) for CEGEP students, in collaboration with the mining engineering program at Polytechnique Montreal. The program includes projects that are reinforced by field trips to industrial operations.

B.Eng.; Major in Mining Engineering

Program credit weight: 144-145 credits

Program credit weight for CEGEP students: 115-116 credits

Entry into the Major in Mining Engineering

Students in Mining can be admitted only into the B.Eng.; Co-op in Mining Engineering. There is no direct entry to the Major in Mining Engineering (which does not include the work terms required for the Co-op program).

Students may enter the Major in Mining Engineering if they wish at any point in time during their study. To transfer into the Major program, students must obtain approval from the department adviser and submit a Request for Course Authorization form to the McGill Engineering Student Centre (Frank Dawson Adams, Room 22).

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 115- to 116-credit program.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (37 credits)

Expand allContract all

Course	Title	Credits
CIVE 205	Statics.	3
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering . ²	3
COMP 250	Introduction to Computer Science.	3
ECSE 209	Electrotechnology.	3
EPSC 221	General Geology.	3
EPSC 225	Properties of Minerals.	1
FACC 100	Introduction to the Engineering Profession. ¹	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MECH 289	Design Graphics.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

² Note: Students choose either COMP 208 or COMP 250.

Required Mining Engineering Courses (47 credits)

Expand allContract all

Course	Title	Credits
MIME 200	Introduction to the Minerals Industry.	3
MIME 203	Mine Surveying.	2
MIME 209	Mathematical Applications.	3
MIME 260	Materials Science and Engineering.	3
MIME 322	Fragmentation and Comminution.	3
MIME 323	Rock and Soil Mass Characterization.	3
MIME 325	Mineral Industry Economics.	3
MIME 333	Materials Handling.	3
MIME 340	Applied Fluid Dynamics.	3
MIME 341	Introduction to Mineral Processing.	3
MIME 413	Strategic Mine Planning With Uncertainty.	3
MIME 419	Surface Mining.	3
MIME 422	Mine Ventilation.	3
MIME 425	Applied Stochastic Orebody Modelling.	3
MIME 426	Mine Design and Prefeasibility Study.	6

Complementary Courses (31-32 credits)

17 credits from one of Stream A or Stream B

Stream A - CEGEP Students

CEGEP students must take the following courses:

Expand allContract all		
Course	Title	Credits
MPMC 321	Mécanique des roches et contrôle des terrains.	3
MPMC 326	Recherche opérationnelle I.	3
MPMC 328	Environnement et gestion des rejets miniers.	3
MPMC 329	Géologie minière.	2
MPMC 330	Géotechnique minière.	3
MPMC 421	Exploitation en souterrain.	3

¹ Mining courses taken at Polytechnique Montréal

Stream B - Non-CEGEP Students

Non-CEGEP students must take the following courses:

Expand allContract all		
Course	Title	Credits
CIVE 208	Civil Engineering System Analysis.	3
MIME 329	Mining Geology.	2
MIME 330	Mining Geotechnics.	3
MIME 421	Rock Mechanics.	3
MIME 424	Underground Mining Methods.	3
MIME 428	Environmental Mining Engineering.	3

Technical Complementaries

List A

3-9 credits must be chosen from the following:

Expand allContract all		
Course	Title	Credits
MIME 320	Extraction of Energy Resources.	3
MIME 442	Analysis, Modelling and Optimization in Mineral Processing.	3
MIME 484	Mining Project.	3
MIME 511	Advanced Subsurface Ventilation and Air Conditioning.	3
MIME 514	Sustainability Analysis of Mining Systems.	3
MIME 520	Stability of Rock Slopes.	3
MIME 527	Selected Topics in Mineral Resource Engineering.	3
MIME 529	Automation of Mining Systems.	3
MIME 544	Analysis: Mineral Processing Systems 1.	3
MIME 545	Analysis: Mineral Processing Systems 2.	3
MIME 588	Reliability Analysis of Mining Systems.	3

List B

0-6 credits can be chosen from the following or from other technical courses in Engineering, Management or Science with department approval.

Note: Not all courses are given annually; see the "Courses" section of this publication to know if a course is offered.

Expand allContract all

Course	Title	Credits
CIVE 416	Geotechnical Engineering.	3
CIVE 421	Municipal Systems.	3
CIVE 573	Hydraulic Structures.	3
CIVE 584	Mechanics of Groundwater Flow.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3
EPSC 325	Environmental Geochemistry.	3
EPSC 549	Hydrogeology.	3
FINE 482	International Finance 1.	3
MIME 290	Industrial Work Period 1.	2
MIME 556	Sustainable Materials Processing.	3
MPMC 320	CAO et informatique pour les mines.	3
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3
SEAD 520	Life Cycle-Based Environmental Footprinting .	3
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3

¹ Mining courses taken at Polytechnique Montréal

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand allContract all		
Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ARCH 515	Sustainable Design.	3
BTEC 502	Biotechnology Ethics and Society.	3
COMS 200	History of Communication.	3
COMS 411	Disability, Technology and Communication.	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change.	3
ENVR 201	Society, Environment and Sustainability.	2
GEOG 203	Environmental Systems.	3
GEOG 205	Global Change: Past, Present and Future.	3
GEOG 302	Environmental Management 1.	3
INSY 331	Managing and Organizing Digital Technology.	3
INSY 334	Design Thinking for User Experience.	3

INSY 455	Technology and Innovation for Sustainability.	3	Religious Studies (CATH and RELG)
LLCU 212	Understanding Digital and Social Media. ¹	3	Sociology (SOCL) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGPO 440	Strategies for Sustainability.	3	OR from the following list:
MGCR 331	Information Technology Management .	3	Desautels Faculty of Management
PHIL 343	Biomedical Ethics.	3	Expand allContract all
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Course Title Credits
SEAD 530	Economics for Sustainability in Engineering and Design.	3	BUSA 465 Technological Entrepreneurship. ¹ 3
SOCI 235	Technology and Society.	3	INDR 294 Introduction to Labour-Management Relations. ¹ 3
SOCI 312	Sociology of Work and Industry.	3	INTG 215 Entrepreneurship Essentials for Non-Management Students. ² 3
SOCI 325	Sociology of Science.	3	MGCR 222 Introduction to Organizational Behaviour. ¹ 3
Note: Enrolment in certain courses is subject to permission from the offering department.		¹ Note: Prerequisites will be strictly applied.	
² Note: ENVR courses have limited enrolment.		³ Note: Management courses have limited enrolment and registration dates. See Important Dates at http://www.mcgill.ca/importantdates	

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Course	Title	Credits
BUSA 465	Technological Entrepreneurship. ¹	3
INDR 294	Introduction to Labour-Management Relations. ¹	3
INTG 215	Entrepreneurship Essentials for Non-Management Students. ²	3
MGCR 222	Introduction to Organizational Behaviour. ¹	3
MGCR 352	Principles of Marketing. ¹	3
ORGB 321	Leadership. ¹	3
ORGB 420	Managing Organizational Teams. ¹	3
ORGB 423	Human Resources Management. ¹	3

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought. ³	3
MATH 338	History and Philosophy of Mathematics. ³	3
PSYC 100	Introduction to Psychology. ³	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing. ³	3
FACC 220	Law for Architects and Engineers. ³	3
FACC 500	Technology Business Plan Design. ³	3
FACC 501	Technology Business Plan Project. ³	3

*Restriction applies to the courses that are reserved for the majors or Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>
² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.
³ Note: ENVR courses have limited enrolment.

Co-op in Mining Engineering (B.Eng.) (150 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 150 credits

Program Description

Program credit weight: 150-151 credits

Program credit weight for Quebec CEGEP students: 121-122 credits

The Department offers a Co-op in Mining Engineering Program leading to an accredited B.Eng. degree in Mining Engineering. The program focuses on the science and engineering of sustainable extraction of mineral resources. It contains two streams: English for non-CEGEP students and Bilingual (six courses in French) for CEGEP students, in collaboration with the mining engineering program at Polytechnique Montreal. The program includes projects that are reinforced by field trips to industrial operations as well as three industrial work terms. Students must register for each work term (MIME 290 Industrial Work Period 1., MIME 291 Industrial Work Period 2., MIME 392 Industrial Work Period 3.) and pay associated fees by the Course Change (add/drop) registration deadline. Before registering for any work term course, students must contact the Mining Co-op Liaison Officer for approval.

Required Year 0 (Freshman) Courses (29 credits)

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 121- to 123-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-stud...> and select your term of admission.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B)

Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

Required Non-Departmental Courses (37 credits)

Expand allContract all

Course	Title	Credits
CIVE 205	Statics.	3
CIVE 207	Solid Mechanics.	4
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

COMP 250	Introduction to Computer Science.	3
ECSE 209	Electrotechnology.	3
EPSC 221	General Geology.	3
EPSC 225	Properties of Minerals.	1
FACC 100	Introduction to the Engineering Profession.	1
FACC 250	Responsibilities of the Professional Engineer.	0
FACC 300	Engineering Economy.	3
FACC 400	Engineering Professional Practice.	1
MATH 262	Intermediate Calculus.	3
MATH 263	Ordinary Differential Equations for Engineers.	3
MATH 264	Advanced Calculus for Engineers.	3
MECH 289	Design Graphics.	3
WCOM 206	Communication in Engineering.	3

¹ Note: FACC 100 Introduction to the Engineering Profession. must be taken during the first year of study.

² Students choose either COMP 208 Computer Programming for Physical Sciences and Engineering . or COMP 250 Introduction to Computer Science.

Required Mining Engineering Courses (53 credits)

Expand allContract all

Course	Title	Credits
MIME 200	Introduction to the Minerals Industry.	3
MIME 203	Mine Surveying.	2
MIME 209	Mathematical Applications.	3
MIME 260	Materials Science and Engineering.	3
MIME 290	Industrial Work Period 1.	2
MIME 291	Industrial Work Period 2.	2
MIME 322	Fragmentation and Comminution.	3
MIME 323	Rock and Soil Mass Characterization.	3
MIME 325	Mineral Industry Economics.	3
MIME 333	Materials Handling.	3
MIME 340	Applied Fluid Dynamics.	3
MIME 341	Introduction to Mineral Processing.	3
MIME 392	Industrial Work Period 3.	2
MIME 413	Strategic Mine Planning With Uncertainty.	3
MIME 419	Surface Mining.	3
MIME 422	Mine Ventilation.	3
MIME 425	Applied Stochastic Orebody Modelling.	3
MIME 426	Mine Design and Prefeasibility Study.	6

Complementary Courses (31-32 credits)

17 credits from one of Stream A or Stream B

Stream A - CEGEP Students

CEGEP students must take the following courses:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
MPMC 321	Mécanique des roches et contrôle des terrains. ¹	3	CIVE 416	Geotechnical Engineering.	3
MPMC 326	Recherche opérationnelle I.	3	CIVE 421	Municipal Systems.	3
MPMC 328	Environnement et gestion des rejets miniers.	3	CIVE 573	Hydraulic Structures.	3
MPMC 329	Géologie minière.	2	CIVE 584	Mechanics of Groundwater Flow.	3
MPMC 330	Géotechnique minière.	3	COMP 417	Introduction Robotics and Intelligent Systems.	3
MPMC 421	Exploitation en souterrain.	3	EPSC 303	Structural Geology.	3

¹ Mining courses taken at Polytechnique Montréal

Stream B - Non-CEGEP Students

Non-CEGEP students must take the following courses:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
CIVE 208	Civil Engineering System Analysis.	3	CIVE 416	Geotechnical Engineering.	3
MIME 329	Mining Geology.	2	CIVE 421	Municipal Systems.	3
MIME 330	Mining Geotechnics.	3	CIVE 573	Hydraulic Structures.	3
MIME 421	Rock Mechanics.	3	CIVE 584	Mechanics of Groundwater Flow.	3
MIME 424	Underground Mining Methods.	3	COMP 417	Introduction Robotics and Intelligent Systems.	3
MIME 428	Environmental Mining Engineering.	3	EPSC 303	Structural Geology.	3

Technical Complementaries (8-9 credits)

List A

3-9 credits must be chosen from the following:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
MIME 320	Extraction of Energy Resources.	3	ANTH 212	Anthropology of Development.	3
MIME 442	Analysis, Modelling and Optimization in Mineral Processing.	3	ARCH 515	Sustainable Design.	3
MIME 484	Mining Project.	3	BTEC 502	Biotechnology Ethics and Society.	3
MIME 511	Advanced Subsurface Ventilation and Air Conditioning.	3	COMS 200	History of Communication.	3
MIME 514	Sustainability Analysis of Mining Systems.	3	COMS 411	Disability, Technology and Communication.	3
MIME 520	Stability of Rock Slopes.	3	ECON 225	Economics of the Environment.	3
MIME 527	Selected Topics in Mineral Resource Engineering.	3	ECON 347	Economics of Climate Change.	3
MIME 529	Automation of Mining Systems.	3	ENVR 201	Society, Environment and Sustainability. ²	3
MIME 544	Analysis: Mineral Processing Systems 1.	3	GEOG 203	Environmental Systems.	3
MIME 545	Analysis: Mineral Processing Systems 2.	3	GEOG 205	Global Change: Past, Present and Future.	3
MIME 588	Reliability Analysis of Mining Systems.	3	GEOG 302	Environmental Management 1.	3

List B

0-6 credits can be chosen from the following or from other technical courses in Engineering, Management or Science with department approval.

Note: Not all courses are given annually; see the "Courses" section of this Course Catalogue to know if a course is offered.

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
CIVE 416	Geotechnical Engineering.	3	CIVE 421	Municipal Systems.	3
CIVE 573	Hydraulic Structures.	3	CIVE 584	Mechanics of Groundwater Flow.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3	EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3	EPSC 325	Environmental Geochemistry.	3
EPSC 549	Hydrogeology.	3	FINE 482	International Finance 1.	3
FINE 482	International Finance 1.	3	MIME 494	Industrial Work Period 4.	2
MIME 556	Sustainable Materials Processing.	3	MPMC 320	CAO et informatique pour les mines. ¹	3
SEAD 515	Climate Change Adaptation and Engineering Infrastructure.	3	SEAD 520	Life Cycle-Based Environmental Footprinting.	3
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3			

¹ Mining course taken at Polytechnique Montréal

Complementary Studies

Group A - Impact of Technology on Society

3 credits from the following:

Expand all			Contract all		
Course	Title	Credits	Course	Title	Credits
ANTH 212	Anthropology of Development.	3	ARCH 515	Sustainable Design.	3
BTEC 502	Biotechnology Ethics and Society.	3	COMS 200	History of Communication.	3
COMS 411	Disability, Technology and Communication.	3	COMS 411	Disability, Technology and Communication.	3
ECON 225	Economics of the Environment.	3	ECON 347	Economics of Climate Change.	3
ECON 347	Economics of Climate Change.	3	ENVR 201	Society, Environment and Sustainability. ²	3
GEOG 203	Environmental Systems.	3	GEOG 205	Global Change: Past, Present and Future.	3
GEOG 205	Global Change: Past, Present and Future.	3	GEOG 302	Environmental Management 1.	3
GEOG 302	Environmental Management 1.	3	INSY 331	Managing and Organizing Digital Technology. ³	3
INSY 331	Managing and Organizing Digital Technology. ³	3	INSY 334	Design Thinking for User Experience.	3
INSY 455	Technology and Innovation for Sustainability.	3	LLCU 212	Understanding Digital and Social Media.	3
LLCU 212	Understanding Digital and Social Media.	3	MGCR 331	Information Technology Management . ¹	3
MGPO 440	Strategies for Sustainability.	3			

MGPO 460	Managing Innovation.	3	Sociology (SOCL) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	OR from the following list:
PHIL 343	Biomedical Ethics.	3	Desautels Faculty of Management
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Expand allContract all
SEAD 530	Economics for Sustainability in Engineering and Design.	3	Course Title Credits
SOCI 235	Technology and Society.	3	BUSA 465 Technological Entrepreneurship. ¹ 3
SOCI 312	Sociology of Work and Industry.	3	INDR 294 Introduction to Labour-Management Relations. ¹ 3
SOCI 325	Sociology of Science.	3	INTG 215 Entrepreneurship Essentials for Non-Management Students. ¹ 3

Note: Enrolment in certain courses is subject to permission from the offering department.

¹

² Note: Prerequisites will be strictly applied.

³ Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 or 300 level from the following:

Faculty of Arts

200 or 300 level courses in the following departments excluding seminars, field courses, surveys, special/selected topics courses, courses with physical, natural or medical sciences, mathematics, and statistic contents, and courses reserved for major or Honours in the relative programs:

Anthropology (ANTH)

Art History & Communications (ARTH and COMS)

East Asian Studies (EAST)

Economics (ECON) (any 200- or 300-level course excluding ECON 227D1/D2 and ECON 337)*

French Language & Literature (FREN)* (excluding FREN 222 and FREN 333)

French Language Center (FRSL courses 200 level or higher)

History and Classical Studies (HIST and CLAS) excluding HIST 339

Inst for Gender, Sex & Fem St (GSFS)

Institute for Study of Canada (CANS, and INDG)

Islamic Studies (AFRI, and ISLA)

Jewish Studies (JWST)

Languages, Literatures, Cultures (GERM, HISP, ITAL, LLCU and RUSS)

Philosophy (PHIL) (excluding PHIL 210 and PHIL 310)

Political Science (POLI) (excluding POLI 311)

Religious Studies (CATH and RELG)

MGPO 460	Managing Innovation.	3	Sociology (SOCL) (excluding SOCI 211, SOCI 331, SOCI 342, SOCI 343 and SOCI 350)
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	OR from the following list:
PHIL 343	Biomedical Ethics.	3	Desautels Faculty of Management
SEAD 500	Foundations of Sustainability for Engineering and Design.	3	Expand allContract all
SEAD 530	Economics for Sustainability in Engineering and Design.	3	Course Title Credits
SOCI 235	Technology and Society.	3	BUSA 465 Technological Entrepreneurship. ¹ 3
SOCI 312	Sociology of Work and Industry.	3	INDR 294 Introduction to Labour-Management Relations. ¹ 3
SOCI 325	Sociology of Science.	3	INTG 215 Entrepreneurship Essentials for Non-Management Students. ¹ 3

Note: Enrolment in certain courses is subject to permission from the offering department.

¹

² Note: Prerequisites will be strictly applied.

³ Note: ENVR courses have limited enrolment.

Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

Faculty of Science

Expand allContract all

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment. ³	3
ENVR 400	Environmental Thought. ³	3
MATH 338	History and Philosophy of Mathematics. ³	3
PSYC 100	Introduction to Psychology. ³	3

Faculty of Engineering

Expand allContract all

Course	Title	Credits
ARCH 528	History of Housing. ³	3
FACC 220	Law for Architects and Engineers. ³	3
FACC 500	Technology Business Plan Design. ³	3
FACC 501	Technology Business Plan Project. ³	3

*Note: Restriction applies to courses that are reserved for the major or Honours.

¹ Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>

² Note: INTG 215 is not open to students who have taken INTG 201 and INTG 202.

³ Note: ENVR courses have limited enrolment.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Aerospace Engineering Minor (B.Eng.) (21 credits)

Offered by: Institute for Aerospace Eng. (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 21

Program Description

The B.Eng.; Minor in Aerospace Engineering provides a foundation in the field of aircraft and spacecraft design, with further specializations in aerodynamics and propulsion, structural analysis, materials and processes, spacecraft engineering and systems, and avionics by choosing an appropriate stream.

A maximum of 9 credits of double-counting is allowed with the Major.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
AERO 401	Introduction to Aerospace Engineering.	3
AERO 410	Aerospace Design and Certification Process.	3
AERO 420	Introduction to Aerospace Design.	3

Complementary Courses (12 credits)

12 credits from one of the following streams.

Students may take one complementary course outside of their stream, but their selection must be approved by the Minor Advisor prior to the registration for the course.

Aerodynamics and Propulsion Stream

Expand allContract all

Course	Title	Credits
MECH 447	Combustion.	3
MECH 516	Computational Gasdynamics.	3
MECH 532	Aircraft Performance, Stability and Control.	3
MECH 533	Subsonic Aerodynamics.	3
MECH 535	Turbomachinery and Propulsion.	3
MECH 539	Computational Aerodynamics.	3
MECH 562	Advanced Fluid Mechanics.	3
MECH 566	Fluid-Structure Interactions.	3
MECH 579	Numerical Optimization	3

Aircraft Structures Stream

Expand allContract all

Course	Title	Credits
MECH 530	Mechanics of Composite Materials.	3
MECH 536	Aerospace Structures.	3
MECH 543	Design with Composite Materials.	3
MECH 544	Processing of Composite Materials.	3
MECH 560	Eco-design and Product Life Cycle Assessment .	3
MECH 567	Structural Dynamics of Turbomachines.	3
MIME 560	Joining Processes.	3
MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3

Spacecraft and Systems Stream

Expand allContract all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
MECH 513	Control Systems.	3
MECH 536	Aerospace Structures.	3
MECH 542	Spacecraft Dynamics.	3
MECH 559	Engineering Systems Optimization.	3
MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3
PHYS 320	Introductory Astrophysics.	3

Material and Processes Stream

Expand allContract all

Course	Title	Credits
CHEE 515	Interface Design: Biomimetic Approach. ¹	3
CHEE 541	Electrochemical Engineering.	3
CHEE 543	Plasma Engineering.	3
MECH 544	Processing of Composite Materials.	3
MIME 512	Corrosion and Degradation of Materials.	3
MIME 515	(Bio)material Surface Analysis and Modification. ¹	3
MIME 559	Aluminum Physical Metallurgy.	3
MIME 560	Joining Processes.	3
MIME 563	Hot Deformation of Metals.	3
MIME 565	Aerospace Metallic-Materials and Manufacturing Processes.	3
MIME 571	Surface Engineering.	3
MIME 580	Additive Manufacturing Using Metallic and Ceramic Materials.	3

¹ Students may choose only one of CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification..

Avionics Stream

Expand allContract all

Course	Title	Credits
ECSE 403	Control.	4
ECSE 408	Communication Systems.	4
ECSE 412	Discrete Time Signal Processing.	3
ECSE 420	Parallel Computing.	3
ECSE 421	Embedded Systems.	3
ECSE 422	Fault Tolerant Computing.	3
ECSE 425	Computer Architecture.	3
ECSE 427	Operating Systems.	3
ECSE 429	Software Validation.	3
ECSE 444	Microprocessors.	4
ECSE 465	Power Electronic Systems.	3
ECSE 501	Linear Systems.	3
ECSE 507	Optimization and Optimal Control.	3
ECSE 508	Multi-Agent Systems.	3

ECSE 512	Digital Signal Processing 1.	3
ECSE 516	Nonlinear and Hybrid Control Systems.	3
ECSE 525	Satellite Navigation Systems .	4
ECSE 541	Design of Multiprocessor Systems-on-Chip.	3
ECSE 593	Antennas and Propagation.	3

Applied Artificial Intelligence Minor (B.Eng.) (25 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 25

Program Description

The B.Eng.; Minor in Applied Artificial Intelligence, open to all engineering students, is designed to provide the foundation for applications of AI techniques in various fields of interest.

Students must complete 7 courses as follows. Up to three courses can be double counted with the major.

Complementary Courses (22-25)

Group A

3 credits from the following:

Expand allContract all		
Course	Title	Credits
COMP 250	Introduction to Computer Science.	3

ECSE 250	Fundamentals of Software Development.	3
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¹ COMP 250 Introduction to Computer Science. and ECSE 250 Fundamentals of Software Development. cannot both be taken.

Group B

4 credits from the following:

Expand allContract all		
Course	Title	Credits
COMP 551	Applied Machine Learning.	4

ECSE 551	Machine Learning for Engineers.	4
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¹ ECSE 551 Machine Learning for Engineers. and COMP 551 Applied Machine Learning. cannot both be taken

Group C

3 credits from the following:

Expand allContract all		
Course	Title	Credits
ECSE 343	Numerical Methods in Engineering.	3
MATH 223	Linear Algebra.	3
MATH 247	Honours Applied Linear Algebra.	3
MATH 271	Linear Algebra and Partial Differential Equations.	3

Group D

3 credits from the following:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
CIVE 302	Probabilistic Systems.	3
ECSE 205	Probability and Statistics for Engineers	3
MATH 203	Principles of Statistics 1.	3
MATH 323	Probability.	3
MECH 262	Statistics and Measurement Laboratory.	3
MIME 209	Mathematical Applications.	3

Group E

9-12 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 370	Introduction to Data Science.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3
COMP 424	Artificial Intelligence.	3
COMP 445	Computational Linguistics.	3
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 562	Theory of Machine Learning.	4
COMP 565	Machine Learning in Genomics and Healthcare.	4
COMP 579	Reinforcement Learning.	4
COMP 588	Probabilistic Graphical Models.	4
ECSE 415	Introduction to Computer Vision.	3
ECSE 446	Realistic Image Synthesis.	3
ECSE 507	Optimization and Optimal Control.	3
ECSE 526	Artificial Intelligence.	3
ECSE 544	Computational Photography.	4
ECSE 552	Deep Learning.	4
ECSE 554	Applied Robotics .	4
ECSE 557	Introduction to Ethics of Intelligent Systems.	3
MECH 559	Engineering Systems Optimization.	3

¹ COMP 424 Artificial Intelligence. and ECSE 526 Artificial Intelligence. cannot both be taken.

Or any 400 or 500 level special topics courses in the area of artificial intelligence with the approval of the Electrical and Computer Engineering department.

Arts Minor (B.Eng.) (24 credits)

Offered by: Engineering - Dean's Office (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 24

Program Description

Minor Adviser: Faculty Student Adviser in the Engineering Student Centre (Frank Dawson Adams Building, Room 22)

B.Sc.(Arch.), and B.Eng., students may obtain the Arts Minor as part of their B.Eng., or B.Sc.(Arch.) degree by completing 24 credits, as described below.

Students must select courses for this Minor in consultation with one of the Advisers indicated above.

All courses in the Minor must be passed with a grade of C or better.

Requirements

24 credits as follows:

1. At least two areas of concentration in the Faculty of Arts must be chosen, with a minimum of 6 credits in any one area.
2. At least 12 credits must be at the 300 level or higher.

In general, B.Eng. students may use courses from the Complementary Studies lists (Group A and Group B) in their program that are offered by the Faculty of Arts to satisfy some of these requirements. No more than 9 credits of these courses can be credited toward the Arts Minor.

Biomedical Engineering Minor (B.Eng.) (21 credits)

Offered by: Biomedical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 21

Program Description

Biomedical engineering can be defined as the application of engineering principles to medicine and the life sciences. Students in the Biomedical Engineering Minor take courses in life sciences (anatomy, biology, chemistry, and physiology) and choose courses from area(s) within the field of biomedicine (artificial cells and organs; bioinformatics, genomics, and proteomics; biomaterials, biosensors, and nanotechnology; biomechanics and prosthetics; medical physics and imaging; neural systems and biosignal processing).

Note: Open to students in the Faculty of Engineering and the Department of Bioresource Engineering.

The Biomedical Engineering Minor allows access to courses in basic life sciences and it intended to expose students to the interdisciplinary tools used in biomedicine.

To complete this Minor, students must obtain a grade of C or better in all approved courses and satisfy the requirements of both the major program and the Minor. By careful selection of courses, the Minor can be satisfied with 9 additional credits in the student's major program or a maximum of 12 credits overlap with the major program.

Students considering this Minor should contact the Minor Advisers listed above.

Minor Advisers: Prof. R. Leask (Wong Building, Room 4120), Prof. R. Mongrain (Macdonald Engineering Building, Room 369) or Prof. G. Mitsis (McConnell Engineering Building, Room 361).

Complementary Courses (21-25 credits)

Introductory Life Sciences

Minimum of 3 credits from the courses below:

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function. ¹	3
BIEN 219	Introduction to Physical Molecular and Cell Biology. ²	4
BIOC 212	Molecular Mechanisms of Cell Function. ¹	3
BIOL 200	Molecular Biology. ¹	3
BIOL 201	Cell Biology and Metabolism. ¹	3
BIOL 219	Introduction to Physical Molecular and Cell Biology. ²	4
CHEM 212	Introductory Organic Chemistry 1. ³	4
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

¹ Students can choose one of ANAT 212 Molecular Mechanisms of Cell Function. BIOC 212 Molecular Mechanisms of Cell Function. or BIOL 201 Cell Biology and Metabolism..

² Students can choose one of ANAT 212 Molecular Mechanisms of Cell Function., BIEN 219 Introduction to Physical Molecular and Cell Biology., BIOC 212 Molecular Mechanisms of Cell Function., BIOL 200 Molecular Biology., BIOL 201 Cell Biology and Metabolism.

³ or BIOL 219 Introduction to Physical Molecular and Cell Biology.. Cannot be taken by Chemical Engineering students.

Specialization Courses

Minimum of 12 credits from courses below:

Students must select 6 credits from courses outside their department and at least one BMDE course. BMDE courses are best taken near the end of the program, when prerequisites are satisfied.

Physiological Systems, Artificial Cells and Organs

Expand allContract all

Course	Title	Credits
BIEN 340	Transport Phenomena in Biological Systems 2.	3
BIEN 360	Physical Chemistry in Bioengineering.	3
BIEN 462	Engineering Principles in Physiological Systems.	3
BIEN 540	Information Storage and Processing in Biological Systems.	3
BMDE 505	Cell and Tissue Engineering.	3
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 518	Artificial Cells.	3

Bioinformatics, Genomics and Proteomics

Expand allContract all

Course	Title	Credits				
ANAT 365	Cellular Trafficking.	3	MECH 321	Mechanics of Deformable Solids.	3	
ANAT 458	Membranes and Cellular Signaling.	3	MECH 530	Mechanics of Composite Materials.	3	
BIEN 310	Introduction to Biomolecular Engineering.	3	MECH 561	Biomechanics of Musculoskeletal Systems.	3	
BIEN 410	Computational Methods in Biomolecular Engineering.	3	MECH 563	Biofluids and Cardiovascular Mechanics.	3	
BIEN 420	Biodevices Design for Diagnostics and Screening.	3	MIME 360	Phase Transformations: Solids.	3	
BIEN 540	Information Storage and Processing in Biological Systems.	3	MIME 362	Mechanical Properties.	3	
BIEN 590	Cell Culture Engineering.	3	¹ Students choose either CHEE 563 Biofluids and Cardiovascular Mechanics. or MECH 563 Biofluids and Cardiovascular Mechanics..			
BIOC 311	Metabolic Biochemistry.	3				
BIOC 312	Biochemistry of Macromolecules.	3				
BIOC 458	Membranes and Cellular Signaling.	3				
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3				
COMP 424	Artificial Intelligence.	3				
COMP 462	Computational Biology Methods.	3				

¹ Students select either ANAT 458 Membranes and Cellular Signaling. or BIOC 458 Membranes and Cellular Signaling..

Biomaterials, Biosensors and Nanotechnology

Expand allContract all

Course	Title	Credits			
BIEN 330	Tissue Engineering and Regenerative Medicine.	3			
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3			
BIEN 550	Biomolecular Devices.	3			
BIEN 560	Design of Biosensors.	3			
BMDE 504	Biomaterials and Bioperformance.	3			
BMDE 505	Cell and Tissue Engineering.	3			
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3			
CHEE 380	Materials Science.	3			
ECSE 424	Human-Computer Interaction.	3			
MECH 553	Design and Manufacture of Microdevices.	3			
MIME 360	Phase Transformations: Solids.	3			
MIME 362	Mechanical Properties.	3			
MIME 470	Engineering Biomaterials.	3			
PHYS 534	Nanoscience and Nanotechnology.	3			

Biomechanics and Prosthetics

Expand allContract all

Course	Title	Credits			
BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3			
BIEN 570	Active Mechanics in Biology.	3			
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3			
CHEE 563	Biofluids and Cardiovascular Mechanics.	3			
MECH 315	Intermediate Dynamics	4			

Medical Physics and Imaging

Expand allContract all

Course	Title	Credits			
BIEN 350	Biosignals, Systems and Control.	4			
BIEN 530	Imaging and Bioanalytical Instrumentation.	3			
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3			
BMDE 519	Biomedical Signals and Systems.	3			
COMP 424	Artificial Intelligence.	3			
COMP 558	Fundamentals of Computer Vision.	4			
ECSE 206	Introduction to Signals and Systems.	3			
ECSE 412	Discrete Time Signal Processing.	3			
PHYS 557	Nuclear Physics.	3			

¹ Students choose either BIEN 350 Biosignals, Systems and Control. or ECSE 206 Introduction to Signals and Systems..

Neural Systems and Biosignal Processing

Expand allContract all

Course	Title	Credits			
BIEN 350	Biosignals, Systems and Control.	4			
BIEN 462	Engineering Principles in Physiological Systems.	3			
BMDE 501	Selected Topics in Biomedical Engineering.	3			
BMDE 502	BME Modelling and Identification.	3			
BMDE 503	Biomedical Instrumentation.	3			
BMDE 519	Biomedical Signals and Systems.	3			
ECSE 206	Introduction to Signals and Systems.	3			
ECSE 517	Neural Prosthetic Systems.	3			
ECSE 526	Artificial Intelligence.	3			

¹ Students choose either BIEN 350 Biosignals, Systems and Control. or ECSE 206 Introduction to Signals and Systems..

0-6 credits can be taken by permission of the Departmental Adviser and approval of the Minor Adviser.

Biotechnology Minor (for Engineering Students) (B.Eng.) (24 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 24

Program Description

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22). For advising regarding Science courses, contact Nancy Nelson, Undergraduate Adviser, Department of Biology, Faculty of Science.

This Minor is offered by the Faculty of Engineering and the Faculty of Science for students who wish to take biotechnology courses that are complementary to their area. It has been designed specifically for Chemical Engineering students; other Engineering students who are interested in the Minor should contact a Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

To obtain the Biotechnology Minor, students must complete 24 credits, 18 of which must be exclusively for the Minor. Approved substitutions must be made for any of the required courses that are part of the student's major program.

The Department of Chemical Engineering permits students taking this Minor to complete BIOT 505 Selected Topics in Biotechnology, as one of their technical complementary courses. Chemical Engineering students complete 15 credits beyond their 141-credit (115-credit for CEGEP students) B.Eng. program to obtain this Minor.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIOT 505	Selected Topics in Biotechnology.	3
CHEE 200	Chemical Engineering Principles 1.	3
CHEE 204	Chemical Engineering Principles 2.	3
CHEE 474	Biochemical Engineering.	3

OR

Alternative Required Courses (for Chemical Engineering students)

A Chemical Engineering student may complete the Biotechnology Minor by taking the courses below plus one course from the list of complementary courses, not including FACC 300 Engineering Economy..

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 202	Basic Genetics.	3

BIOT 505	Selected Topics in Biotechnology.	3
MIMM 211	Introductory Microbiology.	3

Complementary Courses

12 credits selected from courses outside the Department of the student's major program and/or from the lists below. If courses are chosen from the lists below, at least three courses must be taken from one area of concentration as grouped.

Biomedicine

Expand allContract all

Course	Title	Credits
ANAT 541	Cell and Molecular Biology of Aging.	3
EXMD 504	Biology of Cancer.	3
PATH 300	Human Disease.	3

Chemistry

Expand allContract all

Course	Title	Credits
CHEM 482	Organic Chemistry: Natural Products.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 552	Physical Organic Chemistry.	3

General

Expand allContract all

Course	Title	Credits
FACC 300	Engineering Economy.	3

Immunology

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
BIOC 503	Biochemistry of Immune Diseases.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 414	Advanced Immunology.	3
PHGY 513	Translational Immunology.	3

Management

Note: Engineering students may not use these courses to count toward a Management minor, nor toward the Complementary Studies requirement.

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
MGCR 211	Introduction to Financial Accounting.	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3

Microbiology

Expand allContract all

Course	Title	Credits
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 413	Parasitology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3

Molecular Biology (Biology)

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 551	Principles of Cellular Control.	3

Molecular Biology (Biochemistry)

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3

Physiology

Expand allContract all

Course	Title	Credits
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
EXMD 502	Advanced Endocrinology 1.	3
EXMD 503	Advanced Endocrinology 02.	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHGY 518	Artificial Cells.	3

Pollution

Note: Engineering students may not use these courses to count toward the Environmental Engineering Minor.

Expand allContract all

Course	Title	Credits
CIVE 225	Environmental Engineering.	4
CIVE 430	Water Treatment and Pollution Control.	3
CIVE 557	Microbiology for Environmental Engineering.	3

Chemistry Minor (B.Eng.) (25 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 25 credits

Program Description

Minor Adviser (program coordinator): Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

A passing grade for courses in the Minor is a C.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
CHEE 310	Physical Chemistry for Engineers. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 233	Topics in Physical Chemistry. ¹	3
CHEM 234	Topics in Organic Chemistry. ²	3

¹ Students choose either CHEM 233 Topics in Physical Chemistry or CHEE 310 Physical Chemistry for Engineers.

² CHEE 310 Physical Chemistry for Engineers. or CEGEP equivalent

Complementary Courses

15 credits from the following lists, two courses of which must be laboratory courses

Note that CHEM 212 Introductory Organic Chemistry 1. is a prerequisite for most of the courses listed below, and CHEM 213 Introductory Physical Chemistry 1: Thermodynamics. and CHEM 273 Introductory Physical Chemistry 2: Kinetics and Methods. or their equivalents are prerequisites for the Physical Chemistry courses. If students take CHEM 222 Introductory Organic Chemistry 2., which includes a lab, instead of CHEM 234 Topics in Organic Chemistry., they will receive credit for one of the two required laboratory courses, but they must complete a total of 25 credits in chemistry for the Minor.

Inorganic Chemistry

Expand allContract all

Course	Title	Credits
CHEM 281	Inorganic Chemistry 1.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 591	Bioinorganic Chemistry.	3

Analytical Chemistry

Expand allContract all

Course	Title	Credits
CHEM 267	Introductory Chemical Analysis.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3

Organic Chemistry

Expand allContract all

Course	Title	Credits
CHEM 302	Introductory Organic Chemistry 3. ¹	3
CHEM 362	Advanced Organic Chemistry Laboratory.	2
CHEM 482	Organic Chemistry: Natural Products.	3

Physical Chemistry

Expand allContract all		
Course	Title	Credits
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 493	Advanced Physical Chemistry Laboratory. ¹	2
CHEM 574	Introductory Polymer Chemistry.	3

¹ indicates lab

Computer Science Minor (B.Eng.) (26 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 26

Program Description

24-26 credits

This program gives students in Engineering an introduction to core computer science concepts. The Minor is open to B.Eng. and B.Sc. (Arch.) students in Engineering who have already taken ECSE 202 Introduction to Software Development., COMP 202 Foundations of Programming., or COMP 208 Computer Programming for Physical Sciences and Engineering .. This program is not open to students in the B.Eng.; Co-op in Software Engineering program. All courses in the Minor must be passed with a grade of C or better. The Minor program may be completed in 24-26 credits, of which no more than 6 credits may overlap with the primary program. Students who are interested in this Minor should consult with the Undergraduate Program Coordinator in the School of Computer Science for administrative matters, and should consult with both the Minor Adviser in Computer Science and with their department adviser for approval of their course selection. Forms must be submitted and approved before the end of the drop/add period of the student's final term

Required Courses (3 credits)

Expand allContract all		
Course	Title	Credits
COMP 206	Introduction to Software Systems.	3

Complementary Courses (21-23 credits)

3 credits from the following:

Expand allContract all		
Course	Title	Credits
COMP 250	Introduction to Computer Science.	3
ECSE 250	Fundamentals of Software Development.	3

3 credits from the following:

Expand allContract all		
Course	Title	Credits
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3

3-4 credits from the following:

Expand allContract all		
Course	Title	Credits
COMP 273	Introduction to Computer Systems.	3
ECSE 324	Computer Organization.	4

3-4 credits from the following:

Expand allContract all		
Course	Title	Credits
CHEE 390	Computational Methods in Chemical Engineering.	3
CIVE 320	Numerical Methods.	4
COMP 350	Numerical Computing.	3
ECSE 343	Numerical Methods in Engineering.	3
MATH 317	Numerical Analysis.	3
MECH 309	Numerical Methods in Mechanical Engineering.	3

9 credits from:

Expand allContract all		
Course	Title	Credits
COMP 251	Algorithms and Data Structures.	3
MATH 240	Discrete Structures.	3

COMP courses at the 300 level or above except COMP 396 Undergraduate Research Project., COMP 400 Project in Computer Science.

It is strongly recommended that students take COMP 251 Algorithms and Data Structures., as it is a prerequisite of many later computer science courses.

Construction Engineering and Management Minor (B.Eng.) (24 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 24

Program Description

This Minor covers construction project management, law related to construction, labour-management relations, financial accounting and

project finance, in addition to topics in other construction-related fields, architecture or mining engineering.

All courses in the Minor must be passed with a grade of C or better.

A maximum of 12 credits of coursework in the student's major may double-count with the Minor.

Minor Adviser: Prof. L. Chouinard, Macdonald Engineering Building, Room 491 (Telephone: 514-398-6446)

Minor program credit weight: 24 credits

Note: This Minor is particularly designed for Civil Engineering students, but is open to all B.Eng. and B.Sc.(Arch.) students.

All courses in the Minor must be passed with a grade of C or better.

Prerequisites

Expand allContract all

Course	Title	Credits
CIVE 208	Civil Engineering System Analysis.	3
CIVE 302	Probabilistic Systems.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
FACC 300	Engineering Economy.	3

Required Courses: Management and Law (15 credits)

Expand allContract all

Course	Title	Credits
CIVE 324	Sustainable Project Management.	3
FACC 220	Law for Architects and Engineers.	3
INDR 294	Introduction to Labour-Management Relations.	3
MGCR 211	Introduction to Financial Accounting.	3
MGCR 341	Introduction to Finance.	3

Complementary Courses (9 credits)

3 credits from List A

6 credits from List B

List A

Expand allContract all

Course	Title	Credits
ARCH 447	Energy, Environment, and Buildings 2.	3
ARCH 451	Building Regulations and Safety.	3
MIME 322	Fragmentation and Commutation.	3
MIME 333	Materials Handling.	3

List B

Expand allContract all

Course	Title	Credits
CIVE 446	Construction Engineering.	3
CIVE 527	Renovation and Preservation: Infrastructure.	3
ECSE 461	Electric Machinery.	3
FINE 445	Real Estate Finance.	3
MIME 520	Stability of Rock Slopes.	3
MIME 521	Stability of Underground Openings.	3
MPMC 321	Mécanique des roches et contrôle des terrains.	1
		3

¹ Course offered in French at École Polytechnique in Montreal

Economics Minor (B.Eng.) (18 credits)

Offered by: Economics (Faculty of Arts)

Degree: Bachelor of Engineering

Program credit weight: 18

Program Description

The B.Eng.; Minor in Economics focuses on such economic topics as: how societies decide what to produce, how much of it, what determines prices, exchange rates, interest rates, and levels of inflation. How economies function internally and on a global scale, what drives consumers, and how public policy and global events affect markets. A maximum of 9 credits of coursework in the student's major may be double counted with the Minor.

Required Courses (18 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3
ECON 250D1	Introduction to Economic Theory: Honours.	3
ECON 250D2	Introduction to Economic Theory: Honours.	3

12 credits from:

Expand allContract all

Course	Title	Credits
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 225	Economics of the Environment.	3
ECON 303	Canadian Economic Policy.	3
ECON 304	Financial Instruments and Institutions.	3
ECON 305	Industrial Organization.	3
ECON 306	Labour Markets and Wages.	3
ECON 308	Governmental Policy Towards Business.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ECON 316	The Underground Economy.	3
ECON 326	Ecological Economics.	3

			Credits	
		Course	Title	Credits
ECON 332	Macroeconomic Theory: Majors 1. ¹	3	BREE 327	Bio-Environmental Engineering.
ECON 333	Macroeconomic Theory - Majors 2. ¹	3	CIVE 225	Environmental Engineering.
ECON 337	Introductory Econometrics 1.	3		
ECON 347	Economics of Climate Change.	3		
ECON 405	Natural Resource Economics.	3		
ECON 406	Topics in Economic Policy.	3		
ECON 408	Public Sector Economics 1.	3		
ECON 409	Public Sector Economics 2.	3		
ECON 416	Topics in Economic Development 2.	3		
ECON 420	Topics in Economic Theory.	3		
ECON 426	Labour Economics.	3		
ECON 434	Current Economic Problems.	3		
ECON 440	Health Economics.	3		
ECON 468	Econometrics 1 - Honours.	3		
ECON 469	Econometrics 2 - Honours.	3		
ECON 525	Project Analysis.	3		
ECON 546	Game Theory.	3		
MIME 325	Mineral Industry Economics. ²	3		
MIME 526	Mineral Economics. ²	3		

¹ If chosen, students choose either ECON 209 Macroeconomic Analysis and Applications. or ECON 332 Macroeconomic Theory: Majors 1. and ECON 333 Macroeconomic Theory - Majors 2..
² Note: Only open to Mining and Materials Engineering students.

Environmental Engineering Minor (B.Eng.) (21 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 21

Program Description

The Minor program is designed to focus on the principles of environmental engineering in all engineering disciplines providing a specialization at the undergraduate level.

The Environmental Engineering Minor is offered by the Department of Civil Engineering for all students in Engineering and in the Department of Bioresource Engineering wishing to pursue studies in this area.

Note: Not all courses listed are offered every year. Students should see the "Courses" section of this Course Catalogue to know if a course is offered.

A maximum of 12 credits of coursework in the student's major may be double-counted with the Minor.

Complementary Courses (21-22 credits)

3-4 credits from the following list:

Expand allContract all

18 credits from Stream A or Stream B:

Stream A

15 credits from the Engineering Course List and 3 credits from the Non-Engineering Course List below

¹ A minimum of 6 credits must be from outside the student's department. A maximum of 6 credits of research project courses may be counted toward this category, provided the project has sufficient environmental engineering content (project requires approval of project supervisor and coordinator of the Minor).

Stream B

9 credits of courses specified from the "Barbados Interdisciplinary Tropical Studies (BITS)" field semester below, provided the project has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor):

Expand allContract all

Course	Title	Credits
AEBI 425	Tropical Energy and Food.	3
AEBI 427	Barbados Interdisciplinary Project.	6

9 credits chosen from the Engineering Course List below, excluding CHEE 496 Environmental Research Project..

Engineering Course List

Courses offered at the MacDonald campus:

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources. ¹	3
BREE 322	Management of Organic Residue	3
BREE 416	Engineering for Land Development.	3
BREE 518	Ecological Engineering.	3
BREE 533	Water Quality Management.	3

¹ Not open to students who have passed CIVE 323 Hydrology and Water Resources..

Courses offered at the Downtown campus:

Expand allContract all

Course	Title	Credits
ARCH 377	Energy, Environment, and Buildings 1.	3
ARCH 515	Sustainable Design.	3
CHEE 351	Separation Processes.	3
CHEE 370	Elements of Biotechnology.	3
CHEE 496	Environmental Research Project.	3
CHEE 591	Environmental Bioremediation.	3
CHEE 593	Industrial Water Pollution Control.	3

CIVE 225	Environmental Engineering.	4	1 Not open to students who have passed CHEE 370 Elements of Biotechnology..
CIVE 323	Hydrology and Water Resources.	3	
CIVE 421	Municipal Systems.	3	
CIVE 428	Water Resources and Hydraulic Engineering.	3	Courses offered at the Downtown campus:
CIVE 430	Water Treatment and Pollution Control.	3	Expand allContract all
CIVE 520	Groundwater Hydrology.	3	Course
CIVE 550	Water Resources Management.	3	Title
CIVE 555	Environmental Data Analysis.	3	Credits
CIVE 557	Microbiology for Environmental Engineering.	3	ANTH 206 Environment and Culture. 3
CIVE 561	Greenhouse Gas Emissions.	3	BIOL 205 Functional Biology of Plants and Animals. 3
CIVE 572	Computational Hydraulics.	3	BIOL 432 Limnology. 3
CIVE 573	Hydraulic Structures.	3	CMPL 580 Environment and the Law. 3
CIVE 574	Fluid Mechanics of Water Pollution.	3	ECON 225 Economics of the Environment. 3
CIVE 577	River Engineering.	3	ECON 326 Ecological Economics. 3
CIVE 584	Mechanics of Groundwater Flow.	3	ECON 347 Economics of Climate Change. 3
MECH 447	Combustion.	3	EPSC 549 Hydrogeology. 3
MECH 534	Air Pollution Engineering.	3	GEOG 200 Geographical Perspectives: World Environmental Problems. 3
MECH 535	Turbomachinery and Propulsion.	3	GEOG 201 Introductory Geo-Information Science. 3
MECH 560	Eco-design and Product Life Cycle Assessment .	3	GEOG 203 Environmental Systems. 3
MIME 422	Mine Ventilation.	3	GEOG 205 Global Change: Past, Present and Future. 3
MIME 428	Environmental Mining Engineering.	3	GEOG 302 Environmental Management 1. 3
MIME 512	Corrosion and Degradation of Materials.	3	GEOG 308 Remote Sensing for Earth Observation. 3
MIME 556	Sustainable Materials Processing.	3	GEOG 321 Climatic Environments. 3
MPMC 328	Environnement et gestion des rejets miniers.	3	GEOG 404 Environmental Management 2. 3
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3	MIMM 211 Introductory Microbiology. 3
SEAD 520	Life Cycle-Based Environmental Footprinting .	3	
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3	
URBP 506	Environmental Policy and Planning.	3	

¹ Not open to students who have passed BREE 217 Hydrology and Water Resources..

Non-Engineering Course List

Courses offered at the MacDonald campus:

Expand allContract all			
Course	Title	Credits	
ENVB 210	The Biophysical Environment.	3	
LSCI 230	Introductory Microbiology.	3	
MICR 331	Microbial Ecology.	3	
MICR 341	Mechanisms of Pathogenicity.	3	
RELG 270	Religious Ethics and the Environment.	3	
SOIL 331	Environmental Soil Physics.	3	

Management (for Non-Management Students) (Minor) (18 credits)

Offered by: Management (Desautels Faculty of Management)
Program credit weight: 18

Program Description

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

9 credits selected from:

Expand allContract all			
Course	Title	Credits	
MGCR 211	Introduction to Financial Accounting.	3	
MGCR 222	Introduction to Organizational Behaviour.	3	

MGCR 271	Business Statistics. ¹	3	1 Students choose either CHEE 380 Materials Science. or MIME 260 Materials Science and Engineering..
MGCR 293	Managerial Economics. ²	3	
MGCR 331	Information Technology Management . ³	3	
MGCR 341	Introduction to Finance.	3	
MGCR 352	Principles of Marketing. ³	3	
MGCR 372	Operations Management.	3	
MGCR 382	International Business.	3	

- ¹ 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.
- ² Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.
- ³ Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Advisor.

9 credits selected from any Management courses not already chosen from the first list or any 300- or 400-level Management courses for which prerequisites have been met.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

Materials Engineering Minor (B.Eng.) (24 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 24

Program Description

Minor Adviser: Prof. Richard Chromik (Minor Coordinator), Wong Building, Room 2620

Engineering students may obtain a Materials Engineering Minor by completing 24 credits chosen from the required and complementary courses listed below. By a careful selection of complementary courses, Engineering students may obtain this Minor with a minimum of 15 additional credits.

Required Courses (15 credits)

Expand allContract all			
Course	Title	Credits	
CHEE 380	Materials Science. ¹	3	
CHEE 484	Materials Engineering. ¹	3	
MIME 260	Materials Science and Engineering. ¹	3	
MIME 345	Applications of Polymers.	3	
MIME 465	Metallic and Ceramic Powders Processing.	3	
MIME 467	Electronic Properties of Materials.	3	

Complementary Courses

9 credits from the following:

Expand allContract all

Course	Title	Credits
MECH 530	Mechanics of Composite Materials.	3
MIME 360	Phase Transformations: Solids.	3
MIME 512	Corrosion and Degradation of Materials.	3
MIME 560	Joining Processes.	3
MIME 561	Advanced Materials Design.	3
MIME 563	Hot Deformation of Metals.	3
MIME 569	Electron Beam Analysis of Materials.	3

Mathematics Minor (B.Eng.) (18 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 18

Program Description

The B.Eng.; Minor in Mathematics provides students with an even stronger foundation in mathematics to further develop their knowledge of this subject. Students enrolled in the B.Eng.; Minor in Mathematics complete a series of mathematics courses offered by the Department of Mathematics and Statistics, or other units offering mathematics courses.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) AND an adviser designated by the Department of Mathematics and Statistics. (Please consult the Department of Mathematics and Statistics for the name of this adviser.) Selection of courses must be undertaken in conjunction with the Minor Advisers, normally beginning in the U2 year.

Note: The B.Eng.; Minor in Mathematics is open to all students in the Faculty of Engineering (including students registered in the B.Sc. (Arch.)). A maximum of 9 credits of overlap (double-counting) with the degree program is allowed.

Engineering students must obtain a grade of C or better in courses approved for this Minor.

Required Course (3 credits)

Expand allContract all			
Course	Title	Credits	
MATH 242	Analysis 1.	3	

Complementary Courses (15 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 223	Linear Algebra.	3
MATH 247	Honours Applied Linear Algebra.	3

6-12 credits selected from:

Expand allContract all

Course	Title	Credits
ECSE 205	Probability and Statistics for Engineers ¹	3
MATH 204	Principles of Statistics 2.	3
MATH 240	Discrete Structures.	3
MATH 243	Analysis 2.	3
MATH 264	Advanced Calculus for Engineers.	3
MATH 271	Linear Algebra and Partial Differential Equations.	3
MATH 316	Complex Variables.	3
MATH 319	Partial Differential Equations . ²	3
MATH 323	Probability. ¹	3
MATH 324	Statistics. ¹	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 340	Discrete Mathematics.	3
MATH 378	Nonlinear Optimization .	3
MATH 417	Linear Optimization.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 463	Convex Optimization.	3
MATH 475	Honours Partial Differential Equations.	3
MATH 478	Computational Methods in Applied Mathematics .	3
MATH 563	Honours Convex Optimization .	4

¹ Students who take ECSE 205 Probability and Statistics for Engineers may not take MATH 323 Probability. or MATH 324 Statistics..

² Students may take MATH 271 Linear Algebra and Partial Differential Equations. or MATH 319 Partial Differential Equations . but not both.

0-6 credits chosen from (200- to 500-level) Mathematics and Statistics courses approved for the B.Sc. Major Mathematics or B.Sc. Honours Mathematics programs, or from mathematics courses offered in other units. The courses in this category must be chosen in consultation with, and approved by, the Minor Adviser from the Department of Mathematics and Statistics.

Note: MATH 262 Intermediate Calculus., MATH 263 Ordinary Differential Equations for Engineers. (or any course with substantial overlap in content with these two courses) and/or MATH 338 History and Philosophy of Mathematics. cannot be credited towards this minor.

Mining Engineering Minor (B.Eng.) (23 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 23

Program Description

Program credit weight: 23-25 credits

The Mining Engineering Minor covers fundamentals of mineral exploration, ore extraction, and mineral processing. The program includes an experiential learning component through an industrial work term for which enrolment may be limited.

Required Courses (17 credits)

Expand allContract all

Course	Title	Credits
MIME 200	Introduction to the Minerals Industry.	3
MIME 291	Industrial Work Period 2.	2
MIME 322	Fragmentation and Comminution.	3
MIME 325	Mineral Industry Economics.	3
MIME 333	Materials Handling.	3
MIME 341	Introduction to Mineral Processing.	3

Complementary Courses (6-8 credits)

6-8 credits from one or more of the following groups:

List A: Mining Engineering

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
MIME 320	Extraction of Energy Resources.	3
MIME 323	Rock and Soil Mass Characterization.	3
MIME 413	Strategic Mine Planning With Uncertainty.	3
MIME 419	Surface Mining.	3
MIME 421	Rock Mechanics.	3
MIME 422	Mine Ventilation.	3
MIME 424	Underground Mining Methods.	3
MIME 425	Applied Stochastic Orebody Modelling.	3
MIME 428	Environmental Mining Engineering.	3
MIME 442	Analysis, Modelling and Optimization in Mineral Processing.	3
MIME 511	Advanced Subsurface Ventilation and Air Conditioning.	3
MIME 514	Sustainability Analysis of Mining Systems.	3
MIME 520	Stability of Rock Slopes.	3
MIME 544	Analysis: Mineral Processing Systems 1.	3

MIME 545	Analysis: Mineral Processing Systems 2.	3
MIME 588	Reliability Analysis of Mining Systems.	3

List B: Mechanical Engineering

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
MECH 497	Value Engineering.	3
MECH 513	Control Systems.	3
MECH 559	Engineering Systems Optimization.	3
MECH 560	Eco-design and Product Life Cycle Assessment.	3
MECH 572	Mechanics and Control of Robotic Manipulators.	3
MECH 573	Mechanics of Robotic Systems.	3

List C: Civil Engineering

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
CIVE 416	Geotechnical Engineering.	3
CIVE 462	Design of Steel Structures.	3
CIVE 463	Design of Concrete Structures.	3
CIVE 527	Renovation and Preservation: Infrastructure.	3

List D: Chemical Engineering

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 453	Process Design.	4
CHEE 455	Process Control.	3
CHEE 484	Materials Engineering.	3

List E: Electrical Engineering

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
ECSE 403	Control.	4
ECSE 422	Fault Tolerant Computing.	3
ECSE 428	Software Engineering Practice.	3
ECSE 429	Software Validation.	3
ECSE 444	Microprocessors.	4
ECSE 464	Power Systems Analysis.	3
ECSE 507	Optimization and Optimal Control.	3

List F: Bioengineering

0-3 credits from the following:

Expand allContract all

Course	Title	Credits
BIEN 560	Design of Biosensors.	3

Nanotechnology Minor (B.Eng.) (21 credits)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 21

Program Description

Through courses already offered in the Faculties of Science, Engineering, and Medicine and Health Sciences, depending on the courses completed, undergraduate students will acquire knowledge in some of the following areas related to nanotechnology:

- Nanomaterial synthesis and processing approaches
- Physicochemistry and quantum behavior of nanomaterials
- State-of-the-art techniques for nanomaterial characterization and detection
- Applications of nanomaterials in engineered solutions
- Nanomaterials in medicine and pharmacology
- Nanomaterials in electronics and energy
- Environmental, health, and social impacts of nanomaterials

Minor program credit weight: 21-22 credits

Students must complete 21 credits of courses as indicated below. A maximum of 12 credits of courses in the student's major may double-count with the Minor.

Students who have not taken the listed prerequisites for any of these courses should ensure that they have the adequate background and/or meet with the instructor before registering for the course. Permission from the instructor and/or department may be required.

The program is open to undergraduate students that are in Year 2 or higher.

Complementary Courses (21-22 credits)

Group A

Students must complete a minimum of 3 credits from the following list of courses:

Expand allContract all

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3
CHEE 521	Nanomaterials and the Aquatic Environment.	3
CHEM 534	Nanoscience and Nanotechnology.	3
CIVE 521	Nanomaterials and the Aquatic Environment.	3
ECSE 535	Nanoelectronic Devices.	3
MIME 570	Micro- and Nano-Fabrication Fundamentals.	3
PHYS 534	Nanoscience and Nanotechnology.	3

¹ Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.
- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

² A 3.0 or higher CGPA is required in order to take these courses.

Group B

Students will be required to take up to 18-19 credits of courses from Group B, depending on how many courses from Group A were taken.

¹ A research-based course (maximum 4cr) with the focus on nanotechnology taken at McGill University may be considered for credits towards this Minor; students must obtain the approval of the research project from the Minor adviser prior to taking the course in order for the course to be counted as part of the Minor credits.

Bioengineering

Expand allContract all

Course	Title	Credits
BIEN 420	Biodevices Design for Diagnostics and Screening.	3
BIEN 550	Biomolecular Devices.	3

Chemical Engineering

Expand allContract all

Course	Title	Credits
CHEE 380	Materials Science. ¹	3
CHEE 515	Interface Design: Biomimetic Approach. ¹	3
CHEE 543	Plasma Engineering.	3
CHEE 582	Polymer Science and Engineering.	3
CHEE 585	Foundations of Soft Matter.	3

¹ Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.
- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

Chemistry

Expand allContract all

Course	Title	Credits
CHEM 334	Advanced Materials.	3
CHEM 531	Chemistry of Inorganic Materials.	3
CHEM 582	Supramolecular Chemistry.	3
CHEM 585	Colloid Chemistry.	3

Electrical Engineering

Expand allContract all

Course	Title	Credits
ECSE 423	Fundamentals of Photonics.	3
ECSE 430	Photonic Devices and Systems.	3
ECSE 433	Physical Basis of Transistor Devices.	4
ECSE 519	Semiconductor Nanostructures and Nanophotonic Devices. ¹	3
ECSE 536	RF Microelectronics. ¹	3
ECSE 571	Optoelectronic Devices. ¹	3
ECSE 596	Optical Waveguides.	3
MIME 262	Properties of Materials in Electrical Engineering. ²	3

¹ A 3.0 or higher CGPA is required in order to take these courses.

² Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.
- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

Mechanical Engineering

Expand allContract all

Course	Title	Credits
MECH 500	Selected Topics in Mechanical Engineering. ¹	3
MECH 553	Design and Manufacture of Microdevices.	3
MECH 556	Microfluidics and BioMEMS. ²	3
MIME 260	Materials Science and Engineering. ²	3

¹ When topic is appropriate, with approval from the Minor Adviser.

² Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.

- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.
- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

Materials Engineering

Expand allContract all

Course	Title	Credits
MIME 261	Structure of Materials. ¹	3
MIME 467	Electronic Properties of Materials.	3
MIME 515	(Bio)material Surface Analysis and Modification. ¹	3
MIME 542	Transmission Electron Microscopy.	3
MIME 569	Electron Beam Analysis of Materials.	3
MIME 571	Surface Engineering.	3

¹ Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.
- BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

Pharmacology

Expand allContract all

Course	Title	Credits
PHAR 504	Drug Discovery and Development 2.	3

Physics

Expand allContract all

Course	Title	Credits
BIOL 319	Introduction to Biophysics. ¹	3
PHYS 319	Introduction to Biophysics.	3
PHYS 346	Majors Quantum Physics.	3
PHYS 558	Solid State Physics.	3

¹ Students can take only one course from each set of the following courses:

- MIME 260 Materials Science and Engineering., MIME 261 Structure of Materials., MIME 262 Properties of Materials in Electrical Engineering. or CHEE 380 Materials Science.
- CHEE 515 Interface Design: Biomimetic Approach. or MIME 515 (Bio)material Surface Analysis and Modification.
- CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.
- CHEM 534 Nanoscience and Nanotechnology. or PHYS 534 Nanoscience and Nanotechnology.

Physics Minor (B.Eng.) (18 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Engineering

Program credit weight: 18

Program Description

The B.Eng.; Minor in Physics focuses on thermal physics and quantum physics. This program is open to engineering students in one of the following honours programs offered by the Faculty of Engineering; Honours in Electrical Engineering and Honours in Mechanical Engineering. See the Engineering Student Centre for details on authorization needed for this program.

A maximum of 9 credits of double-counting is allowed with the major.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
PHYS 253	Thermal Physics.	3
PHYS 357	Honours Quantum Physics 1.	3
PHYS 457	Honours Quantum Physics 2.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
PHYS 351	Honours Classical Mechanics 2.	3
PHYS 362	Statistical Mechanics.	3
PHYS 432	Physics of Fluids.	3
PHYS 514	General Relativity.	3
PHYS 551	Quantum Theory.	3
PHYS 557	Nuclear Physics.	3
PHYS 558	Solid State Physics.	3
PHYS 559	Advanced Statistical Mechanics.	3
PHYS 562	Electromagnetic Theory.	3
PHYS 567	Particle Physics.	3

Software Engineering Minor (B.Eng.) (18 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 18

Program Description

The Software Engineering Minor provides a foundation in basic computer science, computer programming, and software engineering practice.

The Minor program does not carry professional recognition.

Students must complete 18 credits (six courses) as follows. Up to 6 credits (two courses) may be double-counted towards a degree program.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ECSE 223	Model-Based Programming.	3
ECSE 321	Introduction to Software Engineering.	3
ECSE 428	Software Engineering Practice.	3

Complementary Courses

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science.	3 ¹
ECSE 250	Fundamentals of Software Development.	3 ¹

- ¹ Students may choose only one course in each of the following sets:
- COMP 250 Introduction to Computer Science. and ECSE 250 Fundamentals of Software Development.
 - COMP 424 Artificial Intelligence. and ECSE 526 Artificial Intelligence.
 - ECSE 439 Software Language Engineering. and ECSE 539 Advanced Software Language Engineering.
 - ECSE 446 Realistic Image Synthesis. and ECSE 546 Advanced Image Synthesis.

6 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 302	Programming Languages and Paradigms.	3
COMP 307	Principles of Web Development.	3
COMP 370	Introduction to Data Science.	3
COMP 409	Concurrent Programming.	3
COMP 421	Database Systems.	3
COMP 424	Artificial Intelligence.	3 ¹
COMP 512	Distributed Systems.	4
COMP 527	Logic and Computation.	3
ECSE 326	Software Requirements Engineering.	3
ECSE 420	Parallel Computing.	3
ECSE 421	Embedded Systems.	3
ECSE 422	Fault Tolerant Computing.	3
ECSE 424	Human-Computer Interaction.	3

ECSE 425	Computer Architecture.	3
ECSE 427	Operating Systems.	3
ECSE 429	Software Validation.	3
ECSE 437	Software Delivery.	3
ECSE 439	Software Language Engineering. ¹	3
ECSE 446	Realistic Image Synthesis. ^{1,2}	3
ECSE 526	Artificial Intelligence.	3
ECSE 539	Advanced Software Language Engineering. ^{1,2}	4
ECSE 546	Advanced Image Synthesis.	4

- ¹ Students may choose only one course in each of the following sets:
- COMP 250 Introduction to Computer Science. and ECSE 250 Fundamentals of Software Development.
 - COMP 424 Artificial Intelligence. and ECSE 526 Artificial Intelligence.
 - ECSE 439 Software Language Engineering. and ECSE 539 Advanced Software Language Engineering.
 - ECSE 446 Realistic Image Synthesis. and ECSE 546 Advanced Image Synthesis.

- ² Restricted to Honours students or Computer Engineering or Electrical Engineering students with CGPA of at least 3.0 and B+ or better in prerequisites

Technological Entrepreneurship Minor (B.Eng.) (18 credits)

Offered by: Engineering - Dean's Office (Faculty of Engineering)

Degree: Bachelor of Engineering

Program credit weight: 18

Program Description

This Minor in Technological Entrepreneurship is a collaboration of the Faculty of Engineering and the Desautels Faculty of Management. The program focusses on an entrepreneurial mindset to see opportunity in the world and provide training in an entrepreneurial method to bring opportunities for change to life. This program takes a democratized approach to entrepreneurship, with exposure to the diverse manifestations of entrepreneurship in the world including but not limited to new ventures, social enterprise, tech start-ups, cooperatives, corporate venturing, side hustles, and passion projects. Up to 6 credits of Complementary Studies (Group B, Humanities, and Social Science courses) and/or elective courses may double-count towards the Minor.

Required Courses (9 credits)

Course	Title	Credits
FACC 500	Technology Business Plan Design.	3
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGPO 362	Fundamentals of Entrepreneurship.	3

Complementary Courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
FACC 501	Technology Business Plan Project.	3
MGPO 364	Entrepreneurship in Practice.	3

0-3 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
LAWG 570	Innovation for Non-Law Students.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
ORGB 321	Leadership.	3

Environment Concentration Minor (B.A.) (18 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts

Program credit weight: 18

Program Description

This 18-credit Minor Concentration Environment is intended for Arts students in the multi-track system, Law and Management students. Students in Agricultural & Environmental Sciences, Engineering, and Science should complete the Minor Environment.

Advising Note

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of MSE core courses:

The core ENVR courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in natural sciences). A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Adviser.

Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students. If in doubt, ask the Program Adviser.

Location Note

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

Expand allContract all

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 206	Environment and Culture.	3

ANTH 212	Anthropology of Development.	3	POLI 412	Canadian Voting/Public Opinion.	3
ANTH 339	Ecological Anthropology.	3	POLI 445	International Political Economy: Monetary Relations.	3
ANTH 418	Environment and Development.	3	PSYC 215	Social Psychology.	3
ANTH 512	Political Ecology.	3	RELG 270	Religious Ethics and the Environment.	3
ECON 205	An Introduction to Political Economy.	3	RELG 370	Religion and Human Rights.	3
ECON 225	Economics of the Environment.	3	SOCI 222	Urban Sociology.	3
ECON 326	Ecological Economics.	3	SOCI 234	Population and Society.	3
ECON 347	Economics of Climate Change.	3	SOCI 235	Technology and Society.	3
ECON 405	Natural Resource Economics.	3	SOCI 254	Development and Underdevelopment.	3
EDER 494	Human Rights and Ethics in Practice.	3	SOCI 307	Globalization.	3
ENVB 437	Assessing Environmental Impact.	3	SOCI 365	Health and Development.	3
ENVR 201	Society, Environment and Sustainability.	3	SOCI 366	Neighborhoods and Inequality .	3
ENVR 203	Knowledge, Ethics and Environment.	3	SOCI 386	Contemporary Social Movements.	3
ENVR 400	Environmental Thought.	3	URBP 201	Planning the 21st Century City.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3	URBP 504	Planning for Active Transportation.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3	URBP 506	Environmental Policy and Planning.	3
GEOG 210	Global Places and Peoples.	3	URBP 530	Urban Infrastructure and Services in International Context .	3
GEOG 216	Geography of the World Economy.	3	URBP 551	Urban Design and Planning.	3
GEOG 221	Environment and Health.	3	WCOM 314	Communicating Science.	3
GEOG 300	Human Ecology in Geography.	3	Natural Sciences and Technology		
GEOG 301	Geography of Nunavut.	3	Expand allContract all		
GEOG 302	Environmental Management 1.	3	Course	Title	Credits
GEOG 303	Health Geography.	3	AGRI 340	Principles of Ecological Agriculture.	3
GEOG 310	Development and Livelihoods.	3	ANSC 326	Fundamentals of Population Genetics.	3
GEOG 403	Global Health and Environmental Change.	3	ATOC 214	Introduction: Physics of the Atmosphere.	3
GEOG 408	Geography of Development.	3	ATOC 215	Oceans, Weather and Climate.	3
GEOG 423	Dilemmas of Development.	3	BIOL 240	Monteregian Flora.	3
GEOG 530	Global Land and Water Resources.	3	BIOL 305	Animal Diversity.	3
HIST 249	Health and the Healer in Western History.	3	BIOL 308	Ecological Dynamics.	3
HIST 292	History and the Environment.	3	BIOL 310	Biodiversity and Ecosystems.	3
NRSC 221	Environment and Health.	3	BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3	BIOL 418	Freshwater Invertebrate Ecology.	3
			BIOL 432	Limnology.	3
PHIL 230	Introduction to Moral Philosophy 1.	3	BIOL 436	Evolution and Society.	3
PHIL 237	Contemporary Moral Issues.	3	BIOL 465	Conservation Biology.	3
PHIL 334	Ethical Theory.	3	BREE 217	Hydrology and Water Resources.	3
PHIL 341	Philosophy of Science 1.	3	BREE 322	Management of Organic Residue	3
PHIL 343	Biomedical Ethics.	3	BREE 327	Bio-Environmental Engineering.	3
PHIL 348	Philosophy of Law 1.	3	BREE 518	Ecological Engineering.	3
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	CHEM 212	Introductory Organic Chemistry 1.	4
POLI 227	Introduction to Comparative Politics - Global South.	3	CHEM 281	Inorganic Chemistry 1.	3
POLI 345	International Organizations.	3	CIVE 225	Environmental Engineering.	4
POLI 350	Global Environmental Politics.	3	CIVE 323	Hydrology and Water Resources.	3
			CIVE 550	Water Resources Management.	3

COMP 202	Foundations of Programming. ¹	3	1	Note: you may take LSCI 230 Introductory Microbiology, or MIMM 211 Introductory Microbiology., but not both; you may take ENVB 529 GIS for Natural Resource Management, or GEOG 201 Introductory Geo-Information Science., but not both; you may take one of BREE 217 Hydrology and Water Resources., CIVE 323 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology.; you may take BIOL 308 Ecological Dynamics, or ENVB 305 Population and Community Ecology., but not both; you may take BIOL 465 Conservation Biology, or WILD 421 Wildlife Conservation., but not both; you may take COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences., but not both; you may take EPSC 201 Understanding Planet Earth, or EPSC 233 Earth and Life Through Time, but not both.
COMP 204	Computer Programming for Life Sciences. ¹	3		
ENVB 210	The Biophysical Environment.	3		
ENVB 301	Meteorology. ¹	3		
ENVB 305	Population and Community Ecology. ¹	3		
ENVB 410	Ecosystem Ecology.	3		
ENVB 415	Ecosystem Management.	3		
ENVB 529	GIS for Natural Resource Management. ¹	3		
ENVR 200	The Global Environment.	3		
ENVR 202	The Evolving Earth.	3		
ENVR 422	Montreal Urban Sustainability Analysis. ¹	3		
EPSC 201	Understanding Planet Earth. ¹	3		
EPSC 233	Earth and Life Through Time	3		
EPSC 549	Hydrogeology.	3		
ESYS 301	Earth System Modelling.	3		
FDSC 230	Organic Chemistry.	4		
GEOG 200	Geographical Perspectives: World Environmental Problems.	3		
GEOG 201	Introductory Geo-Information Science. ¹	3		
GEOG 205	Global Change: Past, Present and Future.	3		
GEOG 272	Earth's Changing Surface.	3		
GEOG 308	Remote Sensing for Earth Observation.	3		
GEOG 321	Climatic Environments.	3		
GEOG 322	Environmental Hydrology. ¹	3		
GEOG 372	Running Water Environments.	3		
GEOG 470	Wetlands.	3		
GEOG 550	Historical Ecology Techniques. ¹	3		
LSCI 230	Introductory Microbiology.	3		
MICR 331	Microbial Ecology.	3		
MIME 320	Extraction of Energy Resources. ¹	3		
MIMM 211	Introductory Microbiology.	3		
MIMM 214	Introductory Immunology: Elements of Immunity.	3		
MIMM 323	Microbial Physiology.	3		
NRSC 333	Pollution and Bioremediation.	3		
PARA 410	Environment and Infection.	3		
PARA 515	Water, Health and Sanitation.	3		
PHYS 228	Energy and the Environment.	3		
PLNT 304	Biology of Fungi.	3		
PLNT 305	Plant Pathology.	3		
PLNT 358	Flowering Plant Diversity.	3		
PLNT 460	Plant Ecology.	3		
SOIL 300	Geosystems.	3		
WILD 302	Fish Ecology. ¹	3		
WILD 421	Wildlife Conservation. ¹	3		

Environment Minor (B.Sc. (Ag.Env.Sc.) or (B.Sc.) (18 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 18

Program Description

This 18-credit Minor Environment is intended for Faculty of Agricultural and Environmental Sciences students, and Faculty of Science students, but is open to students from other faculties as well, except Arts, Law, and Management. Students in Arts, Law, and Management should complete the Minor Concentration Environment.

Advising Note

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of Bieler School of Environment core courses:

The core ENVR courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown Campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald Campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3

ENVR 203	Knowledge, Ethics and Environment.	3	ENVR 421	Montreal: Environmental History and Sustainability.	3
ENVR 400	Environmental Thought.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given below.					
Suggested Course List			GEOG 210	Global Places and Peoples.	3
The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.			GEOG 216	Geography of the World Economy.	3
Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.			GEOG 221	Environment and Health.	3
This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Bieler School of Environment Program Adviser.			GEOG 300	Human Ecology in Geography.	3
Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students). If in doubt, ask the Program Adviser.			GEOG 301	Geography of Nunavut.	3
Location Note			GEOG 302	Environmental Management 1.	3
When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald Campus in Sainte-Anne-de-Bellevue.			GEOG 303	Health Geography.	3
Social Sciences and Policy			GEOG 310	Development and Livelihoods.	3
Expand allContract all			GEOG 403	Global Health and Environmental Change.	3
Course	Title	Credits	GEOG 408	Geography of Development.	3
AGEC 231	Economic Systems of Agriculture.	3	GEOG 423	Dilemmas of Development.	3
AGEC 333	Resource Economics.	3	GEOG 530	Global Land and Water Resources.	3
AGEC 430	Agriculture, Food and Resource Policy.	3	HIST 249	Health and the Healer in Western History.	3
AGEC 442	Economics of International Agricultural Development.	3	HIST 292	History and the Environment.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3	NRSC 221	Environment and Health.	3
ANTH 206	Environment and Culture.	3	PHIL 221	Introduction to History and Philosophy of Science 2.	3
ANTH 212	Anthropology of Development.	3	PHIL 230	Introduction to Moral Philosophy 1.	3
ANTH 339	Ecological Anthropology.	3	PHIL 237	Contemporary Moral Issues.	3
ANTH 418	Environment and Development.	3	PHIL 334	Ethical Theory.	3
ANTH 512	Political Ecology.	3	PHIL 341	Philosophy of Science 1.	3
ECON 205	An Introduction to Political Economy.	3	PHIL 343	Biomedical Ethics.	3
ECON 225	Economics of the Environment.	3	PHIL 348	Philosophy of Law 1.	3
ECON 326	Ecological Economics.	3	POLI 212	Introduction to Comparative Politics – Europe/North America.	3
ECON 347	Economics of Climate Change.	3	POLI 227	Introduction to Comparative Politics - Global South.	3
ECON 405	Natural Resource Economics.	3	POLI 345	International Organizations.	3
EDER 494	Human Rights and Ethics in Practice.	3	POLI 350	Global Environmental Politics.	3
ENVB 437	Assessing Environmental Impact.	3	POLI 412	Canadian Voting/Public Opinion.	3
ENVR 201	Society, Environment and Sustainability.	3	POLI 445	International Political Economy: Monetary Relations.	3
ENVR 203	Knowledge, Ethics and Environment.	3	PSYC 215	Social Psychology.	3
ENVR 400	Environmental Thought.	3	RELG 270	Religious Ethics and the Environment.	3
			RELG 370	Religion and Human Rights.	3
			SOCI 222	Urban Sociology.	3
			SOCI 234	Population and Society.	3
			SOCI 235	Technology and Society.	3
			SOCI 254	Development and Underdevelopment.	3
			SOCI 307	Globalization.	3
			SOCI 365	Health and Development.	3
			SOCI 366	Neighborhoods and Inequality .	3
			SOCI 386	Contemporary Social Movements.	3

URBP 201	Planning the 21st Century City.	3	ESYS 301	Earth System Modelling.	3
URBP 504	Planning for Active Transportation.	3	FDSC 230	Organic Chemistry.	4
URBP 506	Environmental Policy and Planning.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
URBP 530	Urban Infrastructure and Services in International Context .	3	GEOG 201	Introductory Geo-Information Science. ¹	3
URBP 551	Urban Design and Planning.	3	GEOG 205	Global Change: Past, Present and Future.	3
WCOM 314	Communicating Science.	3	GEOG 272	Earth's Changing Surface.	3
			GEOG 308	Remote Sensing for Earth Observation.	3
			GEOG 321	Climatic Environments.	3

Natural Sciences and Technology

Expand allContract all

Course	Title	Credits			
AGRI 340	Principles of Ecological Agriculture.	3	GEOG 322	Environmental Hydrology.	3
ANSC 326	Fundamentals of Population Genetics.	3	GEOG 372	Running Water Environments.	3
ATOC 214	Introduction: Physics of the Atmosphere.	3	GEOG 470	Wetlands.	3
ATOC 215	Oceans, Weather and Climate.	3	GEOG 550	Historical Ecology Techniques. ¹	3
BIOL 240	Monteregian Flora.	3	LSCI 230	Introductory Microbiology.	3
BIOL 305	Animal Diversity. ¹	3	MICR 331	Microbial Ecology.	3
BIOL 308	Ecological Dynamics.	3	MIME 320	Extraction of Energy Resources. ¹	3
BIOL 310	Biodiversity and Ecosystems.	3	MIMM 211	Introductory Microbiology.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3	MIMM 214	Introductory Immunology: Elements of Immunity.	3
BIOL 418	Freshwater Invertebrate Ecology.	3	MIMM 323	Microbial Physiology.	3
BIOL 432	Limnology.	3	NRSC 333	Pollution and Bioremediation.	3
BIOL 436	Evolution and Society. ¹	3	PARA 410	Environment and Infection.	3
BIOL 465	Conservation Biology.	3	PARA 515	Water, Health and Sanitation.	3
BREE 217	Hydrology and Water Resources.	3	PLNT 304	Biology of Fungi.	3
BREE 322	Management of Organic Residue	3	PLNT 305	Plant Pathology.	3
BREE 327	Bio-Environmental Engineering.	3	PLNT 358	Flowering Plant Diversity.	3
BREE 518	Ecological Engineering.	3	PLNT 460	Plant Ecology.	3
CHEM 212	Introductory Organic Chemistry 1.	4	SOIL 300	Geosystems.	3
CHEM 281	Inorganic Chemistry 1.	3	WILD 302	Fish Ecology.	3
CIVE 225	Environmental Engineering. ¹	4	WILD 421	Wildlife Conservation. ¹	3
CIVE 323	Hydrology and Water Resources. ¹	3		Note: you may take LSCI 230 Introductory Microbiology. or MIMM 211 Introductory Microbiology., but not both; you may take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science., but not both; you may take one of BREE 217 Hydrology and Water Resources., CIVE 323 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology.; you may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology., but not both; you may take BIOL 465 Conservation Biology. or WILD 421 Wildlife Conservation., but not both; you may take COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences., but not both; you may take EPSC 201 Understanding Planet Earth. or EPSC 233 Earth and Life Through Time, but not both.	
CIVE 550	Water Resources Management. ¹	3			
COMP 202	Foundations of Programming.	3			
COMP 204	Computer Programming for Life Sciences. ¹	3			
ENVB 210	The Biophysical Environment.	3			
ENVB 301	Meteorology.	3			
ENVB 305	Population and Community Ecology. ¹	3			
ENVB 410	Ecosystem Ecology.	3			
ENVB 415	Ecosystem Management.	3			
ENVB 529	GIS for Natural Resource Management. ¹	3			
ENVR 200	The Global Environment.	3			
ENVR 202	The Evolving Earth.	3			
ENVR 422	Montreal Urban Sustainability Analysis. ¹	3			
EPSC 201	Understanding Planet Earth. ¹	3			
EPSC 233	Earth and Life Through Time	3			
EPSC 549	Hydrogeology.	3			

Faculty Program Environment - Ecological Determinants of Health in Society (B.A.) (54 credits)

Offered by: Bieler School of Environment (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

An understanding of the interface between human health and environment depends not only on an appreciation of the biological and ecological determinants of health, but equally on an appreciation of the role of social sciences in the design, implementation, and monitoring of interventions. Demographic patterns and urbanization, economic forces, ethics, indigenous knowledge and culture, and an understanding of how social change can be effected are all critical if we are to be successful in our efforts to assure health of individuals and societies in the future. Recognizing the key role that nutritional status plays in maintaining a healthy body, and the increasing importance of infection as a health risk linked intimately with the environment, this domain prepares students to contribute to the solution of problems of nutrition and infection by tying the relevant natural sciences to the social sciences.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: [### Numeracy](http://www.mcgill.ca/study/university_regulations_and_resources/undergra...for details.</p>
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3 credits from the following, or equivalent (e.g., CEGEP objective 0OUN):

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Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3

Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objective 0OUK):

Expand allContract all

Course	Title	Credits
AEBI 120	General Biology.	3
BIOL 111	Principles: Organismal Biology.	3

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

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Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Complementary Courses (33 credits)

33 credits of complementary courses are chosen as follows:

6 credits of Health and Environment

12 credits of Fundamentals, maximum 3 credits from any one category

9 credits from List A

6 credits from List B

Health and Environment

Expand allContract all

Course	Title	Credits
GEOG 221	Environment and Health. ¹	3
GEOG 303	Health Geography.	3
NRSC 221	Environment and Health.	3

¹ Students take either GEOG 221 Environment and Health. or NRSC 221 Environment and Health., but not both.

Fundamentals (12 credits)

12 credits of Fundamentals (3 credits from each category):

Health and Infection

Expand allContract all

Course	Title	Credits
GEOG 403	Global Health and Environmental Change.	3
GEOG 493	Health and Environment in Africa.	3
GEOG 503	Advanced Topics in Health Geography.	3
PARA 410	Environment and Infection.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Economics

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 225	Economics of the Environment.	3

Nutrition

Expand allContract all

Course	Title	Credits
EDKP 292	Nutrition and Wellness.	3
NUTR 207	Nutrition and Health.	3

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. You should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
SOCI 350	Statistics in Social Research.	3

List A

9 credits from List A (maximum 3 credits from any one category):

Health and Society

Expand allContract all

Course	Title	Credits
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 234	Population and Society.	3
SOCI 309	Health and Illness.	3
SOCI 331	Population and Environment.	3
SOCI 515	Medicine and Society.	3

Hydrology and Climate

Expand allContract all

Course	Title	Credits
AGRI 452	Water Resources in Barbados.	3
BREE 217	Hydrology and Water Resources.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3

¹ Note: You may take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology., but not both.

Agriculture

Expand allContract all

Course	Title	Credits
AEBI 425	Tropical Energy and Food.	3
AGRI 340	Principles of Ecological Agriculture.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
AGRI 550	Sustained Tropical Agriculture.	3
NUTR 341	Global Food Security.	3

Decision Making

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
ECON 440	Health Economics.	3
PHIL 343	Biomedical Ethics.	3
RELG 270	Religious Ethics and the Environment.	3

Biology Fundamentals

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3

BIOL 200	Molecular Biology.	3	GEOG 201	Introductory Geo-Information Science. ¹	3
BIOL 308	Ecological Dynamics. ¹	3	GEOG 302	Environmental Management 1.	3
ENVB 305	Population and Community Ecology. ¹	3	GEOG 404	Environmental Management 2.	3
LSCI 211	Biochemistry 1.	3	WILD 421	Wildlife Conservation.	3

¹ Note: You may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology., but not both.

Development and Ecology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ANTH 512	Political Ecology.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 310	Development and Livelihoods.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 365	Health and Development.	3

List B

6 credits from List B (maximum 3 credits from any one category):

Advanced Ecology

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
BIOL 451	Research in Ecology and Development in Africa. ¹	3
BIOL 465	Conservation Biology.	3
BIOL 553	Neotropical Environments.	3
ENVB 410	Ecosystem Ecology.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
NRSC 451	Research in Ecology and Development in Africa. ¹	3

¹ Note: You may take BIOL 451 Research in Ecology and Development in Africa. or NRSC 451 Research in Ecology and Development in Africa., but not both.

Pollution Control and Pest Management

Expand allContract all

Course	Title	Credits
ENTO 352	Biocontrol of Pest Insects.	3
NRSC 333	Pollution and Bioremediation.	3
PARA 515	Water, Health and Sanitation.	3

Techniques and Management

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use. ¹	3
ENVB 529	GIS for Natural Resource Management.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3

¹ Note: You may take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science., but not both.

or, advanced quantitative methods course (with approval of Adviser).

Social Change and Influences

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
ENVR 430	The Economics of Well-Being.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 514	Climate Change Vulnerability and Adaptation.	3
HIST 249	Health and the Healer in Western History.	3
SOCI 307	Globalization.	3

Immunology and Infectious Disease

Expand allContract all

Course	Title	Credits
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
MIMM 324	Fundamental Virology. ¹	3
MIMM 413	Parasitology.	3
PARA 424	Fundamental Parasitology. ¹	3
PARA 438	Immunology.	3
PPHS 501	Population Health and Epidemiology.	3

¹ Note: You may take MIMM 413 Parasitology. or WILD 424, but not both.

Populations and Place

Expand allContract all

Course	Title	Credits
ANTH 451	Research in Society and Development in Africa.	3
EDKP 204	Health Education.	3
GEOG 451	Research in Society and Development in Africa. ¹	3
GEOG 498	Humans in Tropical Environments.	3
HIST 335	Science and Medicine in Canada.	3
HIST 510	Environmental History of Latin America (Field).	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 550	Developing Societies.	3

¹ Note: You may take ANTH 451 Research in Society and Development in Africa. or GEOG 451 Research in Society and Development in Africa., but not both.

Faculty Program Environment - Economics and the Earth's Environment (B.A.) (54 credits)

Offered by: Bieler School of Environment (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. This knowledge is not always enough, as economics often plays a controlling role in how we use and abuse our environment.

This domain educates students in the fundamentals of economics and Earth sciences. The fundamentals of economics are provided, as is their application to the effects of economic choices on Earth's environment. Examples of these applications include the economic effects of public policy toward resource industries and methods of waste disposal, and the potential effects of global warming on the global economy. Students also learn of minerals, rocks, soils, and waters that define much of Earth's environment and how these materials interact with each other and with the atmosphere. Courses in specific subdisciplines of Earth sciences combined with courses presenting a global vision of how the Earth and its environment operate provide the student with the necessary knowledge of geologic processes. Examples of this knowledge include the effects of mineral and energy extraction on the environment and how industrial waste interacts with solids and liquids in the environment. The Earth science and economics studies merge in the final year when the students apply what they have learned in the domain to current environmental issues.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: http://www.mcgill.ca/study/university_regulations_and_resources/undergra... for details.

Numeracy

3 credits of the following, or equivalent (e.g., CEGEP objective OOUN):

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Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3

Basic Science

3 credits of the following, or equivalent (e.g., CEGEP objectives Chemistry OOUL):

Course	Title	Credits
AECH 110	General Chemistry 1.	4
CHEM 110	General Chemistry 1.	4

Other Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program pre-requisites or co-requisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

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Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course – Senior Research Project (3 credits)

Only 3 credits will be applied to the program: extra credits will count as electives.

Expand allContract all

Course	Title	Credits	Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6	AEBI 423	Sustainable Land Use.	3
ENVR 401	Environmental Research.	3	AGRI 550	Sustained Tropical Agriculture.	3
ENVR 451	Research in Panama.	6	ANTH 451	Research in Society and Development in Africa. ¹	3
FSCI 444	Barbados Research Project.	6	BIOL 451	Research in Ecology and Development in Africa. ¹	3

Domain: Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3
ECON 405	Natural Resource Economics.	3
EPSC 210	Introductory Mineralogy.	3
EPSC 240	Geology in the Field.	3

Domain: Complementary Courses (18 credits)

18 credits are selected from various categories as follows:

Statistics (3 credits)

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3

Economics

6 credits from:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 416	Topics in Economic Development 2.	3
ECON 511	Energy, Economy and Environment.	3

Advanced Courses (9 credits)

9 credits chosen from two areas:

Area 1: Development/Environmental Management

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ECON 305 Industrial Organization. 3

ECON 313 Economic Development 1. 3

ECON 314 Economic Development 2. 3

ECON 408 Public Sector Economics 1. 3

ECON 409 Public Sector Economics 2. 3

ENVB 437 Assessing Environmental Impact. 3

ENVB 529 GIS for Natural Resource Management.¹ 3

ENVR 421 Montreal: Environmental History and Sustainability. 3

ENVR 422 Montreal Urban Sustainability Analysis.¹ 3

GEOG 201 Introductory Geo-Information Science. 3

GEOG 302 Environmental Management 1. 3

GEOG 340 Sustainability in the Caribbean. 3

GEOG 404 Environmental Management 2. 3

GEOG 451 Research in Society and Development in Africa.¹ 3

GEOG 498 Humans in Tropical Environments. 3

HIST 510 Environmental History of Latin America (Field). 3

MIME 320 Extraction of Energy Resources. 3

NRSC 451 Research in Ecology and Development in Africa.¹ 3

¹ Note: You can take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science. but not both; you can take BIOL 451 Research in Ecology and Development in Africa. or NRSC 451 Research in Ecology and Development in Africa. but not both; you can take ANTH 451 Research in Society and Development in Africa. or GEOG 451 Research in Society and Development in Africa. but not both.

Area 2: Environmental Resources

Expand allContract all

Course	Title	Credits
ATOC 341	Caribbean Climate and Weather. ¹	3
BIOL 308	Ecological Dynamics.	3
BIOL 343	Biodiversity in the Caribbean.	3
BREE 217	Hydrology and Water Resources. ¹	3
ENVB 305	Population and Community Ecology. ¹	3
EPSC 325	Environmental Geochemistry.	3
EPSC 355	Sedimentary Geology.	3
EPSC 549	Hydrogeology.	3
GEOG 305	Soils and Environment.	3
GEOG 322	Environmental Hydrology. ¹	3
SOIL 300	Geosystems.	3

¹ Note: You can take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology. but not both; you can take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology. but not both.

Faculty Program Environment - Environment and Development (B.A.) (54 credits)

Offered by: Bieler School of Environment (Faculty of Science)

Degree: Bachelor of Arts

Program credit weight: 54

Program Description

The B.A.; Faculty Program in Environment; Environment and Development is an introduction to theories, concepts and approaches associated with the complexities between environment and development. The problems and solutions to the development/environmental crisis, which include: the natural world, theories behind economic development and growth, and of the cultural constructs of nature and environment; knowledge of global economic and environmental organizations; and sustainability and the climate crisis.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: http://www.mcgill.ca/study/university_regulations_and_resources/undergra... for details.

Calculus

3 credits of calculus from the following, or equivalent (e.g., CEGEP objective OOUN):

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3

Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objectives: Biology OOUK, Chemistry OOUL, Physics OOUR):

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
CHEM 110	General Chemistry 1.	4
PHYS 101	Introductory Physics - Mechanics.	4

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses, but does not include the program prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (30 credits)

Location Note: ENVR courses are taught at both McGill's Downtown campus and Macdonald campus. You should register in Section 001 of an ENVR course on the Downtown campus, and in Section 051 of an ENVR on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ANTH 339	Ecological Anthropology.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3
GEOG 302	Environmental Management 1.	3

Complementary Courses (24 credits)

Senior Research Project

3 credits will be applied to the program; extra credits will count as electives.

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6

FSCI 444	Barbados Research Project.	6	BREE 217	Hydrology and Water Resources. ¹	3
GEOG 451	Research in Society and Development in Africa.	3	ENVB 210	The Biophysical Environment.	3
Microeconomics					
3 credits from:					
Expand allContract all					
Course	Title	Credits			
AGEC 200	Principles of Microeconomics.	3	ENVB 305	Population and Community Ecology.	3
ECON 208	Microeconomic Analysis and Applications.	3	GEOG 305	Soils and Environment. ¹	3
			GEOG 322	Environmental Hydrology.	3
			NRSC 451	Research in Ecology and Development in Africa.	3
			NUTR 501	Nutrition in the Majority World.	3
			NUTR 505	Public Health Nutrition.	3
			PARA 410	Environment and Infection. ¹	3
			WILD 421	Wildlife Conservation.	3

Statistics

3 credits from one of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Advanced Development Courses

6 credits from:

Expand allContract all

Course	Title	Credits
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 423	Dilemmas of Development.	3
GEOG 514	Climate Change Vulnerability and Adaptation.	3
GEOG 525	Asian Cities in the 21st Century.	3

Natural Sciences

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AGRI 550	Sustained Tropical Agriculture.	3
ATOC 341	Caribbean Climate and Weather. ¹	3
BIOL 308	Ecological Dynamics.	3
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 451	Research in Ecology and Development in Africa. ¹	3
BIOL 465	Conservation Biology.	3
BIOL 553	Neotropical Environments.	3

1 Note: If chosen, you may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology.; you may take BIOL 465 Conservation Biology. or WILD 421 Wildlife Conservation.; you may take ENVB 210 The Biophysical Environment. or GEOG 305 Soils and Environment.; you may take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology..					

Social Sciences

6 credits from:

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use.	3
AEBI 425	Tropical Energy and Food.	3
AGEC 333	Resource Economics.	3
ANTH 322	Social Change in Modern Africa.	3
ANTH 451	Research in Society and Development in Africa.	3
ANTH 512	Political Ecology.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
ECON 511	Energy, Economy and Environment.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 201	Introductory Geo-Information Science.	3
GEOG 311	Economic Geography.	3
GEOG 331	Urban Social Geography.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 404	Environmental Management 2.	3
GEOG 496	Geographical Excursion.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 510	Humid Tropical Environments.	3
GEOG 514	Climate Change Vulnerability and Adaptation.	3
GEOG 530	Global Land and Water Resources.	3
HIST 292	History and the Environment.	3
HIST 510	Environmental History of Latin America (Field).	3
INTD 360	Environmental Challenges in Development.	3

POLI 345	International Organizations.	3
POLI 350	Global Environmental Politics.	3
POLI 445	International Political Economy: Monetary Relations.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 331	Population and Environment.	3
WCOM 314	Communicating Science.	3

Environment Interfaculty Program (B.A. & Sc.) (54 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts and Science

Program credit weight: 54

Program Description

The B.A. & Sc.; Interfaculty Program in Environment focuses on the myriad of environmental problems faced by society today. The program offers a great degree of flexibility and can provide both a broad liberal arts/science training as well as specific and in-depth focus on particular areas of interest.

Program Requirements

1. Students are required to take a maximum of 21 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses.
2. Students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their interfaculty program and their minor or minor concentration. ENVR courses are considered courses in both Arts and Science, and so the credits are split between the two faculties for the purpose of this regulation.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught on both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Complementary Courses (36 credits)

Senior Research Project

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6
GEOG 451	Research in Society and Development in Africa.	3

Statistics

One of:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Areas

30 credits from at least three of the following Areas. At least 6 credits must be at the 400 level or higher, selected either from these lists or in consultation with the Program Adviser.

Area 1: Population, Community, and Ecosystem Ecology

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
BIOL 432	Limnology.	3
BIOL 441	Biological Oceanography.	3

BIOL 540	Ecology of Species Invasions.	3	GEOG 522	Advanced Environmental Hydrology.	3
ENVB 305	Population and Community Ecology.	3	GEOG 530	Global Land and Water Resources.	3
ENVB 410	Ecosystem Ecology.	3			
ENVB 500	Advanced Topics in Ecotoxicology.	3			
ENVR 540	Ecology of Species Invasions.	3			
PLNT 460	Plant Ecology.	3			

¹ Note: You may take BIOL 308 Ecological Dynamics, or ENVB 305 Population and Community Ecology..

Area 2: Biodiversity and Conservation

Expand allContract all

Course	Title	Credits
BIOL 305	Animal Diversity.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 427	Herpetology.	3
BIOL 465	Conservation Biology.	3
MICR 331	Microbial Ecology.	3
PLNT 358	Flowering Plant Diversity.	3
WILD 307	Natural History of Vertebrates.	3
WILD 350	Mammalogy.	3
WILD 420	Ornithology.	3

Area 3: Field Studies in Ecology and Conservation

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 334D1	Applied Tropical Ecology.	1.5
BIOL 334D2	Applied Tropical Ecology.	1.5
BIOL 335	Marine Mammals.	3
BIOL 553	Neotropical Environments.	3
GEOG 495	Field Studies - Physical Geography.	3
WILD 475	Desert Ecology.	3

Area 4: Hydrology and Water Resources

* Note: If chosen, you may take only one of: GEOG 322 Environmental Hydrology., BREE 217 Hydrology and Water Resources., or CIVE 323 Hydrology and Water Resources..

** Note: If chosen, you may take EPSC 522 Advanced Environmental Hydrology. or GEOG 522 Advanced Environmental Hydrology..

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources.	3
CIVE 323	Hydrology and Water Resources.	3
EPSC 522	Advanced Environmental Hydrology.	3
EPSC 549	Hydrogeology.	3
GEOG 322	Environmental Hydrology.	3
GEOG 470	Wetlands.	3

Area 5: Human Health

Expand allContract all

Course	Title	Credits
NUTR 307	Metabolism and Human Nutrition.	3
PARA 410	Environment and Infection.	3
PATH 300	Human Disease.	3
PHAR 303	Principles of Toxicology.	3

Area 6: Earth and Soil Sciences

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ATOC 341	Caribbean Climate and Weather.	3
EPSC 201	Understanding Planet Earth.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3

Area 7: Economics

Note: If chosen, you may take AGEC 200 Principles of Microeconomics. or ECON 208 Microeconomic Analysis and Applications..

Expand allContract all

Course	Title	Credits
AGEC 200	Principles of Microeconomics.	3
AGEC 333	Resource Economics.	3
ECON 208	Microeconomic Analysis and Applications.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
ECON 511	Energy, Economy and Environment.	3
GEOG 216	Geography of the World Economy.	3

Area 8: Development and Underdevelopment

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 212	Anthropology of Development.	3
ANTH 418	Environment and Development.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
GEOG 325	New Master-Planned Cities.	3
GEOG 408	Geography of Development.	3
GEOG 409	Geographies of Developing Asia.	3
GEOG 423	Dilemmas of Development.	3
POLI 227	Introduction to Comparative Politics - Global South.	3

POLI 445	International Political Economy: Monetary Relations.	3	WILD 421	Wildlife Conservation.	3
			WOOD 441	Integrated Forest Management.	3

Area 9: Cultures and People

Expand allContract all

Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 339	Ecological Anthropology.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 210	Global Places and Peoples.	3
GEOG 498	Humans in Tropical Environments.	3
HIST 292	History and the Environment.	3
HIST 510	Environmental History of Latin America (Field).	3

Area 10: Human Ecology and Health

Expand allContract all

Course	Title	Credits
ANTH 227	Medical Anthropology.	3
GEOG 303	Health Geography.	3
PHIL 343	Biomedical Ethics.	3
SOCI 225	Medicine and Health in Modern Society.	3
SOCI 309	Health and Illness.	3

Area 11: Spirituality, Philosophy, and Thought

Expand allContract all

Course	Title	Credits
ANTH 318	Globalization and Religion.	3
EDER 461	Society and Change.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 348	Philosophy of Law 1.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 370	Religion and Human Rights.	3

Area 12: Environmental Management

Expand allContract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
COMS 360	Environmental Communication.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 404	Environmental Management 2.	3
NRSC 333	Pollution and Bioremediation.	3
POLI 350	Global Environmental Politics.	3
WCOM 314	Communicating Science.	3
WILD 401	Fisheries and Wildlife Management.	3

Environment Major - Ecological Determinants of Health - Cellular (B.Sc. (Ag.Env.Sc.)) or (B.Sc.) (63 credits)**Offered by:** Bieler School of Environment**Degree:** Bachelor of Science (Agricultural and Environmental Sciences)**Program credit weight:** 63**Program Description**

The Cellular concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Cellular concentration will explore these interactions in more depth, at a physiological level. Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 33 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Required Course (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 403	Global Health and Environmental Change.	3
PARA 410	Environment and Infection.	3

Domain: Complementary Courses (36 credits)

36 credits of the complementary courses are selected as follows:

18 credits - Fundamentals, 3 credits from each category

12 credits - Human Health, maximum of 3 credits from any one category

6 credits - Natural Environment, maximum of 3 credits from any one category

Fundamentals

18 credits of Fundamentals, 3 credits from each category.

Health, Society, and Environment

Expand allContract all

Course	Title	Credits
GEOG 221	Environment and Health. ¹	3
GEOG 303	Health Geography.	3
GEOG 503	Advanced Topics in Health Geography. ¹	3
NRSC 221	Environment and Health.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Cellular Biology

Expand allContract all

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
LSCI 202	Molecular Cell Biology.	3

¹ Note: You will not receive credit for either LSCI 211 Biochemistry 1. or LSCI 202 Molecular Cell Biology. if you have already received credit for both BIOL 200 Molecular Biology. and BIOL 201 Cell Biology and Metabolism.; you will not receive credit for either BIOL 200 Molecular Biology. or BIOL 201 Cell Biology and Metabolism. if you have already received credit for both LSCI 202 Molecular Cell Biology. and LSCI 211 Biochemistry 1..

Genetics

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
LSCI 204	Genetics.	3

Molecular Biology

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology. ¹	3
LSCI 211	Biochemistry 1.	3

¹ Note: You will not receive credit for either LSCI 211 Biochemistry 1. or LSCI 202 Molecular Cell Biology. if you have already received credit for both BIOL 200 Molecular Biology. and BIOL 201 Cell Biology and Metabolism.; you will not receive credit for either BIOL 200 Molecular Biology. or BIOL 201 Cell Biology and Metabolism. if you have already received credit for both LSCI 202 Molecular Cell Biology. and LSCI 211 Biochemistry 1..

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
MATH 203	Principles of Statistics 1.	3

Nutrition

Expand allContract all

Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
NUTR 207	Nutrition and Health.	3
NUTR 307	Metabolism and Human Nutrition.	3

Human Health

12 credits chosen from Human Health, maximum of 3 credits from any one category:

Immunology and Pathogenicity

Expand allContract all

Course	Title	Credits
MICR 341	Mechanisms of Pathogenicity.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
PARA 438	Immunology.	3
PATH 300	Human Disease.	3

Infectious Disease

Expand allContract all

Course	Title	Credits
ANSC 400	Eukaryotic Cells and Viruses.	3
MIMM 324	Fundamental Virology.	3
MIMM 413	Parasitology. ¹	3
PARA 424	Fundamental Parasitology.	3
PPHS 501	Population Health and Epidemiology.	3

¹ Note: You can take MIMM 413 Parasitology. or PARA 424 Fundamental Parasitology., but not both.

Toxicology

Expand allContract all

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
PHAR 300	Drug Action.	3
PHAR 303	Principles of Toxicology.	3

Hormones

Expand allContract all

Course	Title	Credits
ANSC 424	Metabolic Endocrinology. ¹	3
PHGY 210	Mammalian Physiology 2.	3
PSYC 342	Hormones and Behaviour.	3

¹ Note: You will not receive credit for ANSC 424 Metabolic Endocrinology. if you have already received credit for both PHGY 209 Mammalian Physiology 1. and PHGY 210 Mammalian Physiology 2.; you will not receive credit for PHGY 210 Mammalian Physiology 2. if you have already received credit for both ANSC 323 Mammalian Physiology. and ANSC 424 Metabolic Endocrinology..

Physiology

Expand allContract all

Course	Title	Credits
ANSC 323	Mammalian Physiology. ¹	3
PHGY 209	Mammalian Physiology 1.	3

¹ Note: You will not receive credit ANSC 323 Mammalian Physiology. if you have already received credit for both PHGY 209 Mammalian Physiology 1. and PHGY 210 Mammalian Physiology 2.; you will not receive credit for PHGY 209 Mammalian Physiology 1. if you have already received credit for both ANSC 323 Mammalian Physiology. and ANSC 424 Metabolic Endocrinology..

Natural Environment

6 credits chosen from the Natural Environment, maximum of 3 credits from any one category:

Hydrology and Climate

Expand allContract all

Course	Title	Credits
ATOC 341	Caribbean Climate and Weather. ¹	3
BREE 217	Hydrology and Water Resources.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology. ¹	3

¹ Note: You may take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology., but not both.

Techniques and Management

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 340	Sustainability in the Caribbean.	3
NUTR 450	Research Methods: Human Nutrition.	3

or, advanced quantitative methods course (with approval of Adviser).

Pest Management

Expand allContract all

Course	Title	Credits	
BIOL 350	Insect Biology and Control.	3	This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.
ENTO 352	Biocontrol of Pest Insects.	3	

Pollution Control and Management

Expand allContract all

Course	Title	Credits	
BREE 322	Management of Organic Residue	3	
BREE 518	Ecological Engineering.	3	
NRSC 333	Pollution and Bioremediation.	3	
PARA 515	Water, Health and Sanitation.	3	

Ecology

Expand allContract all

Course	Title	Credits	
AEBI 421	Tropical Horticultural Ecology.	3	
BIOL 343	Biodiversity in the Caribbean.	3	
BIOL 432	Limnology.	3	
BIOL 451	Research in Ecology and Development in Africa. ¹	3	
BIOL 465	Conservation Biology.	3	
BIOL 540	Ecology of Species Invasions.	3	
BIOL 553	Neotropical Environments.	3	
ENVB 410	Ecosystem Ecology.	3	
ENVR 540	Ecology of Species Invasions. ¹	3	
MICR 331	Microbial Ecology.	3	
NRSC 451	Research in Ecology and Development in Africa. ¹	3	
PLNT 304	Biology of Fungi.	3	
PLNT 460	Plant Ecology.	3	

¹ Note: You may take ENVR 540 Ecology of Species Invasions. or BIOL 540 Ecology of Species Invasions., but not both; you may take BIOL 451 Research in Ecology and Development in Africa. or NRSC 451 Research in Ecology and Development in Africa., but not both.

Environment Major - Ecological Determinants of Health - Population (B.Sc. (Ag.Env.Sc.) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

The Population concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health. Students in the Cellular concentration will explore these interactions in more depth, at a physiological level.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

[Expand all](#)[Contract all](#)

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Required Course (3 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
PARA 410	Environment and Infection.	3

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

24 credits - Fundamentals, maximum of 3 credits from each category

6 credits - List A categories, maximum of 3 credits from any one category

9 credits - List B categories, maximum of 3 credits from any one category

Fundamentals

24 credits of fundamentals, 3 credits from each category:

Health and Environment

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
NRSC 221	Environment and Health.	3

Health and Society

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 403	Global Health and Environmental Change.	3
GEOG 503	Advanced Topics in Health Geography.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3
SOCI 234	Population and Society.	3
SOCI 309	Health and Illness.	3
SOCI 331	Population and Environment.	3

Toxicology

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANSC 312	Animal Health and Disease.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
PHAR 303	Principles of Toxicology.	3

Cellular Biology

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANSC 234	Biochemistry 2.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
LSCI 202	Molecular Cell Biology.	3

¹ Note: You will not receive credit for either LSCI 211 Biochemistry 1. or LSCI 202 Molecular Cell Biology., if you have already received credit for both BIOL 200 Molecular Biology. and BIOL 201 Cell Biology and Metabolism.; you will not receive credit for either BIOL 200 Molecular Biology. or BIOL 201 Cell Biology and Metabolism. if you have already received credit for LSCI 202 Molecular Cell Biology. and LSCI 211 Biochemistry 1..

Molecular Biology

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 200	Molecular Biology. ¹	3
LSCI 211	Biochemistry 1.	3

¹ Note: You will not receive credit for either LSCI 211 Biochemistry 1. or LSCI 202 Molecular Cell Biology. if you have already received credit for both BIOL 200 Molecular Biology. and BIOL 201 Cell Biology and Metabolism.; you will not receive credit for either BIOL 200 Molecular Biology. or BIOL 201 Cell Biology and Metabolism. if you have already received credit for both LSCI 202 Molecular Cell Biology. and LSCI 211 Biochemistry 1..

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

[Expand all](#)[Contract all](#)

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
MATH 203	Principles of Statistics 1.	3

Nutrition

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANSC 433	Animal Nutrition and Metabolism.	3
NUTR 207	Nutrition and Health.	3
NUTR 307	Metabolism and Human Nutrition.	3

Advanced Ecology

[Expand all](#)[Contract all](#)

Course	Title	Credits	
AEBI 421	Tropical Horticultural Ecology.	3	
BIOL 451	Research in Ecology and Development in Africa.	3	
BIOL 465	Conservation Biology.	3	
BIOL 540	Ecology of Species Invasions.	3	
BIOL 553	Neotropical Environments.	3	
ENVB 410	Ecosystem Ecology.	3	
ENVR 540	Ecology of Species Invasions.	3	
MICR 331	Microbial Ecology.	3	
NRSC 451	Research in Ecology and Development in Africa.	3	
PLNT 460	Plant Ecology.	3	

¹ Note: You may take ENVR 540 Ecology of Species Invasions. or BIOL 540 Ecology of Species Invasions., but not both; you may take BIOL 451 Research in Ecology and Development in Africa. or NRSC 451 Research in Ecology and Development in Africa., but not both.

List A

6 credits from the following List A categories, maximum of 3 credits from any one category:

Hydrology, Climate, and Agriculture

Expand allContract all

Course	Title	Credits
AGRI 340	Principles of Ecological Agriculture.	3
AGRI 550	Sustained Tropical Agriculture.	3
ATOC 341	Caribbean Climate and Weather.	3
BREE 217	Hydrology and Water Resources.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3

¹ Note: You may take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology., but not both.

Decision Making, Techniques and Management

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use.	3
AGEC 200	Principles of Microeconomics.	3
AGEC 333	Resource Economics.	3
ENVB 437	Assessing Environmental Impact.	3
ENVB 529	GIS for Natural Resource Management.	3
ECON 208	Microeconomic Analysis and Applications.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 201	Introductory Geo-Information Science.	3
GEOG 302	Environmental Management 1.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 404	Environmental Management 2.	3
PHIL 343	Biomedical Ethics.	3

or, advanced quantitative methods course (with approval of Adviser).

¹ Note: You may take AGEC 200 Principles of Microeconomics. or ECON 208 Microeconomic Analysis and Applications., but not both; you may take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science., but not both.

Development and History

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
EDER 461	Society and Change.	3
HIST 292	History and the Environment.	3
NUTR 501	Nutrition in the Majority World.	3
SOCI 254	Development and Underdevelopment.	3

List B

9 credits from the following List B categories, maximum of 3 credits from any one category:

Immunology and Infectious Disease

Expand allContract all

Course	Title	Credits
ANSC 400	Eukaryotic Cells and Viruses.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
MIMM 324	Fundamental Virology.	3
MIMM 413	Parasitology.	3
PARA 424	Fundamental Parasitology.	3
PARA 438	Immunology.	3
PPHS 501	Population Health and Epidemiology.	3

Populations and Place

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 451	Research in Society and Development in Africa.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 451	Research in Society and Development in Africa.	3
GEOG 498	Humans in Tropical Environments.	3
NUTR 341	Global Food Security.	3

¹ Note: You may take ANTH 451 Research in Society and Development in Africa. or GEOG 451 Research in Society and Development in Africa., but not both.

Pollution Control and Pest Management

Expand allContract all

Course	Title	Credits	
BIOL 350	Insect Biology and Control.	3	on the website (http://www.mcgill.ca/environment), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).
BREE 322	Management of Organic Residue	3	Prerequisites and equivalent courses are common with Math courses, so check with your adviser when choosing your courses. Be especially careful with Statistics courses, as you will receive no credit (and no warning!) for a course that is considered equivalent to one you have already taken. Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.
ENTO 352	Biocontrol of Pest Insects.	3	
NRSC 333	Pollution and Bioremediation.	3	
PARA 515	Water, Health and Sanitation.	3	

Genetics			
Expand allContract all			
Course	Title	Credits	
BIOL 202	Basic Genetics.	3	Statistics courses BIOL 373 Biometry. OR AEMA 310 Statistical Methods 1. can be taken in U1, but do not take them if you want to follow Option 1 (below), as they overlap with MATH 324 Statistics..
LSCI 204	Genetics.	3	

Environment Major - Environmetrics (B.Sc. (Ag.Env.Sc.)) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

In view of the crucial need for sound study design and appropriate statistical methods for analyzing environmental changes and their impacts on humans and various life forms and their ecological relationships, this program is intended to provide students with a strong background in the use of statistical methods of data analysis in environmental sciences.

Graduates will be capable of effectively participating in the design of environmental studies and adequately analyzing data for use by the environmental community. Accordingly, the list of courses for the Environmetrics Domain is composed primarily of statistics courses and mathematically oriented courses with biological and ecological applications. The list is completed by general courses that refine the topics introduced in the Bieler School of Environment core courses by focusing on the ecology of living organisms, soil sciences or water resources, and impact assessment. These courses should allow the students to understand their interlocutors and be understood by them in their future job. Students can further develop their background in applied or mathematical statistics and their expertise in environmental sciences by taking complementary courses along each of two axes: statistics and mathematics, and environmental sciences. An internship is also offered to students to provide them with preliminary professional experience.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course if you want to take it on the Downtown campus, and in Section 051 of an ENVR course if you want to take it on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
AEMA 403	Environmetrics Stage.	3
AEMA 414	Temporal and Spatial Statistics 01.	3

Domain - Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

12 credits - Fundamentals

3 credits - Basic Environmental Science

6 credits - Statistics, one of two options

15 credits - List 1 and List 2

Fundamentals

12 credits of Fundamentals, 3 credits from each category.

Ecology

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
ENVB 305	Population and Community Ecology.	3

Impact

Expand allContract all

Course	Title	Credits
ENVB 437	Assessing Environmental Impact.	3
GEOG 340	Sustainability in the Caribbean.	3
MIME 308	Social Impact of Technology.	3

Modelling

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
ENVB 506	Quantitative Methods: Ecology.	3

GIS Techniques

Expand allContract all

Course	Title	Credits
ENVB 529	GIS for Natural Resource Management.	3
GEOG 201	Introductory Geo-Information Science.	3

Basic Environmental Science

One of:

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources.	3
CIVE 323	Hydrology and Water Resources.	3
ENVB 210	The Biophysical Environment.	3

GEOG 305	Soils and Environment.	3
GEOG 322	Environmental Hydrology.	3
GEOG 350	Ecological Biogeography.	3

Statistics

6 credits of Statistics are selected from one of the following two options.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science. Several Statistics courses overlap (especially with MATH 324 Statistics.) and cannot be taken together. These rules do not apply to B.Sc.(Ag.Env.Sc.) students.

Option 1

Expand allContract all

Course	Title	Credits
MATH 323	Probability.	3
MATH 324	Statistics.	3

Option 2

One of:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
BIOL 373	Biometry.	3

And one of:

Expand allContract all

Course	Title	Credits
AEMA 411	Experimental Designs 01.	3
CIVE 555	Environmental Data Analysis.	3
GEOG 351	Quantitative Methods.	3
SOCI 461	Quantitative Data Analysis.	3

A total of 15 credits are chosen from the following two lists.

List 1

3 credits minimum of statistics and mathematics chosen from:

Expand allContract all

Course	Title	Credits
BREE 252	Computing for Engineers. ¹	3
BREE 319	Engineering Mathematics. ¹	3
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
MATH 223	Linear Algebra.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 423	Applied Regression.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 525	Sampling Theory and Applications.	4

SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
1 1 or equivalent courses		
Note: or equivalent courses to BREE 252 Computing for Engineers, or BREE 319 Engineering Mathematics..		

List 2

3 credits minimum of environmental sciences chosen from:

Expand allContract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
ATOC 341	Caribbean Climate and Weather.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 553	Neotropical Environments.	3
ENVB 313	Phylogeny and Biogeography.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 302	Environmental Management 1.	3
GEOG 404	Environmental Management 2.	3
GEOG 494	Urban Field Studies.	3
NRSC 333	Pollution and Bioremediation.	3
PLNT 460	Plant Ecology.	3
WILD 401	Fisheries and Wildlife Management.	3

Environment Major - Food Production and Environment (B.Sc.(Ag.Env.Sc.)) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The business of food production is an area of human activity with a large and intimate interaction with the environment. As the global population rises, demand for food and food production increases. This demand must be met through a combination of increased productivity of existing agricultural land and by bringing new arable land into production. This is a serious challenge for two main reasons. Firstly, there are environmental impacts of agricultural activities which can

be significant and which can be difficult to assess and contain, as the effects range from loss of biodiversity due to increasing farm size, production of biofuels versus food, non-point source pollution of rivers and lakes, and a loss of arable land to urbanization. Secondly, a growing population needs support from a number of different land uses (e.g., urban growth, transportation, water resource use, timber resources, etc.), many of which conflict, and all of which compete with food production land requirements. As the available land resource decreases, land-use competition for what remains will grow more fierce, making the need for smart and informed decision-making related to food production increasingly critical.

Program Prerequisites or Corequisites

All students in this program MUST take these pre- or corequisite courses, or their equivalents. These courses are taken as follows:

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
LSCI 211	Biochemistry 1.	3

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	4
FDSC 230	Organic Chemistry.	4

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3

Course	Title	Credits
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits	Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6	ENVB 210	The Biophysical Environment.	3
ENVR 401	Environmental Research.	3	GEOG 305	Soils and Environment.	3
ENVR 451	Research in Panama.	6			
FSCI 444	Barbados Research Project.	6			

Domain: Required Courses (6 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
AEBI 210	Organisms 1.	3	BIOL 308	Ecological Dynamics.	3
AGRI 340	Principles of Ecological Agriculture.	3	ENVB 305	Population and Community Ecology.	3

Domain: Complementary Courses (36 credits)

36 credits of complementary courses selected as follows:

18 credits - Fundamentals

12 credits - Applied Sciences

6 credits - Social Sciences/Humanities

The Applied and Social Sciences courses are grouped according to subtopics. Students can choose their courses from one subtopic, or a combination of subtopics.

Fundamentals (18 credits)

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
MATH 203	Principles of Statistics 1.	3

One of:

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AEBI 425	Tropical Energy and Food.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 325	Sustainable Agriculture Field Course	3

Applied Sciences (12 credits)

Food and Human Health

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
FDSC 200	Introduction to Food Science. ¹	3
MICR 331	Microbial Ecology.	3
NUTR 207	Nutrition and Health.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 505	Public Health Nutrition.	3
PARA 410	Environment and Infection.	3
PHAR 303	Principles of Toxicology.	3

¹ Note: Students take FDSC 200 Introduction to Food Science or NUTR 207 Nutrition and Health., but not both.

Food Production

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AEBI 425	Tropical Energy and Food.	3
AGRI 215	Agro-Ecosystems Field Course.	3
AGRI 325	Sustainable Agriculture Field Course	3

AGRI 550	Sustained Tropical Agriculture.	3	GEOG 510	Humid Tropical Environments.	3
ENTO 352	Biocontrol of Pest Insects.	3	HIST 510	Environmental History of Latin America (Field).	3
PLNT 302	Forage Crops and Pastures.	3	SOCI 254	Development and Underdevelopment.	3
PLNT 307	Agroecology of Vegetables and Fruits.	3			
PLNT 353	Plant Structure and Function.	3			
PLNT 430	Pesticides in Agriculture.	3			
PLNT 434	Weed Biology and Control.	3			
SOIL 315	Soil Nutrient Management.	3			

Natural Resources and Natural Resource Impacts

Expand allContract all

Course	Title	Credits	Course	Title	Credits
BIOL 343	Biodiversity in the Caribbean. ¹	3	AEBI 423	Sustainable Land Use.	3
BIOL 465	Conservation Biology.	3	ANTH 418	Environment and Development.	3
BIOL 553	Neotropical Environments.	3	BREE 529	GIS for Natural Resource Management. ¹	3
BREE 217	Hydrology and Water Resources. ²	3	ENVB 437	Assessing Environmental Impact. ¹	3
BREE 322	Management of Organic Residue	3	ENVB 529	GIS for Natural Resource Management. ¹	3
BREE 518	Ecological Engineering.	3	GEOG 201	Introductory Geo-Information Science.	3
ENVB 500	Advanced Topics in Ecotoxicology. ²	3	ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 322	Environmental Hydrology.	3	GEOG 302	Environmental Management 1.	3
NRSC 333	Pollution and Bioremediation.	3	GEOG 404	Environmental Management 2.	3
WILD 401	Fisheries and Wildlife Management. ¹	3	GEOG 530	Global Land and Water Resources.	3
WILD 421	Wildlife Conservation. ¹	3	MGPO 440	Strategies for Sustainability.	3

¹ Note: Students take BIOL 465 Conservation Biology. or WILD 421 Wildlife Conservation., but not both.

² Note: Students take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology., but not both.

Social Science (6 credits)

Economic and Resource Policy

Expand allContract all

Course	Title	Credits
AGEC 320	Intermediate Microeconomic Theory. ¹	3
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
ECON 225	Economics of the Environment. ¹	3
ECON 405	Natural Resource Economics.	3

¹ Note: Students take AGEC 333 Resource Economics. or ECON 405 Natural Resource Economics., but not both.

Social Change and Human Impacts

Expand allContract all

Course	Title	Credits
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 498	Humans in Tropical Environments.	3

Environment Management

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use.	3
ANTH 418	Environment and Development.	3
BREE 529	GIS for Natural Resource Management. ¹	3
ENVB 437	Assessing Environmental Impact. ¹	3
ENVB 529	GIS for Natural Resource Management. ¹	3
GEOG 201	Introductory Geo-Information Science.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 404	Environmental Management 2.	3
GEOG 530	Global Land and Water Resources.	3
MGPO 440	Strategies for Sustainability.	3

¹ Note: Students may take only one of BREE 529 GIS for Natural Resource Management., ENVB 529 GIS for Natural Resource Management., or GEOG 201 Introductory Geo-Information Science..

Environment Major - Land Surface Processes and Environmental Change (B.Sc. (Ag.Env.Sc.) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The thin soil layer on the planet's land surfaces controls the vital inputs of water, nutrients, and energy to terrestrial and freshwater aquatic ecosystems. Widespread occurrences around the globe of desertification, soil erosion, deforestation, and land submergence over water reservoirs indicate that this dynamic system is under increasing pressure from population growth and changes in climate and land uses. Production of key greenhouse gases (water vapour, CO₂, and methane) is controlled by complex processes operating at the land surface, involving climate change feedbacks that need to be fully understood, given current global warming trends.

The program introduces students to the interacting physical and biogeochemical processes at the atmosphere-lithosphere interface, which fashion land surface habitats and determine their biological

productivity and response to anthropogenic or natural environmental changes. Through an appropriate selection of courses, students can prepare for graduate training in emerging research areas such as earth system sciences, environmental hydrology, and landscape ecology.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6
GEOG 451	Research in Society and Development in Africa.	3

Domain Required Course (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3

Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

9 credits - 3 credits from each category of Statistics, Geographic Information Systems, Weather and Climate

9 credits of fundamental land surface processes

3 credits of environment and resource management

3 credits of field course

3 credits of social science

12 credits total of advanced studies chosen from List A: Particular Environments and List B: Surface Processes

Statistics

3 credits from one of the following Statistics courses or equivalent:

* Note: Other appropriate statistics courses may be approved as substitutions by the Program Adviser. Credit given for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult the "Course Overlap" information in the "Course Requirements" section of the Course Catalogue for the Faculty of Science.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3

Geographic Information Systems

3 credits from:

Expand allContract all

Course	Title	Credits
ENVB 529	GIS for Natural Resource Management.	3
GEOG 201	Introductory Geo-Information Science.	3

Weather and Climate

3 credits from:

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ATOC 341	Caribbean Climate and Weather.	3
ENVB 301	Meteorology.	3

Fundamental Land Surface Processes

9 credits total of fundamental land surface processes chosen as follows:

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits	Field Course	Credits
GEOG 321	Climatic Environments.	3	3 credits from:	
0-3 credits from:			Expand allContract all	
Expand allContract all			Course	Title
Course	Title	Credits	ATOC 555	Field Course 1.
GEOG 272	Earth's Changing Surface.	3	BIOL 343	Biodiversity in the Caribbean.
SOIL 300	Geosystems.	3	BIOL 553	Neotropical Environments.
0-3 credits from:			GEOG 495	Field Studies - Physical Geography.
Expand allContract all			GEOG 496	Geographical Excursion.
Course	Title	Credits	WILD 475	Desert Ecology.
ENVB 210	The Biophysical Environment.	3		
GEOG 305	Soils and Environment.	3		
0-3 credits from:				
Expand allContract all				
Course	Title	Credits		
BREE 217	Hydrology and Water Resources.	3		
GEOG 322	Environmental Hydrology.	3		
Environment and Resource Management				
3 credits from:				
Expand allContract all				
Course	Title	Credits		
AGRI 550	Sustained Tropical Agriculture. ¹	3		
BIOL 308	Ecological Dynamics.	3		
BIOL 465	Conservation Biology.	3		
CIVE 225	Environmental Engineering.	4		
ENVB 305	Population and Community Ecology. ¹	3		
ENVB 437	Assessing Environmental Impact.	3		
ENVB 530	Advanced GIS for Natural Resource Management.	3	12 credits total of advanced studies chosen from the following two lists:	
ENVR 422	Montreal Urban Sustainability Analysis.	3		
ESYS 301	Earth System Modelling.	3		
GEOG 302	Environmental Management 1.	3		
GEOG 308	Remote Sensing for Earth Observation.	3		
GEOG 340	Sustainability in the Caribbean.	3		
GEOG 404	Environmental Management 2.	3		
GEOG 506	Advanced Geographic Information Science.	3		
GEOG 530	Global Land and Water Resources.	3		
SOIL 315	Soil Nutrient Management.	3		
WILD 421	Wildlife Conservation.	3		
WOOD 441	Integrated Forest Management.	3		

¹ Note: You may take BIOL 308 Ecological Dynamics, or ENVB 305 Population and Community Ecology, but not both.

List A - Particular Environments

3-9 credits of advanced study of Particular Environments:

Course	Title	Credits
BIOL 432	Limnology.	3
ENVB 410	Ecosystem Ecology.	3
GEOG 372	Running Water Environments.	3
GEOG 470	Wetlands.	3
GEOG 550	Historical Ecology Techniques.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 460	Plant Ecology.	3

List B - Surface Processes

3-9 credits of advanced study of Surface Processes:

Expand allContract all

Course	Title	Credits
ATOC 315	Thermodynamics and Convection.	3
BREE 509	Hydrologic Systems and Modelling.	3
EPSC 325	Environmental Geochemistry.	3
EPSC 549	Hydrogeology.	3
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 505	Global Biogeochemistry.	3
MICR 331	Microbial Ecology.	3
NRSC 333	Pollution and Bioremediation.	3
SOIL 535	Soil Ecology.	3

Program Prerequisites or Corequisites

All students in this program MUST take the following pre- or corequisite courses:

One of the following biology courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
LSCI 211	Biochemistry 1.	3

One of the following chemistry courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	4
FDSC 230	Organic Chemistry.	4

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Environment Major - Renewable Resource Management (B.Sc. (Ag.Env.Sc.) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

Renewable resource management is an emerging field that focuses on the ecosystem structures and processes required to sustain the delivery, to humanity, of ecosystem goods and services such as food, clean water and air, essential nutrients, and the provision of beauty and inspiration. Renewable resource management recognizes humans as integral components of ecosystems and is used to develop goals that are consistent with sustainability and ecosystem maintenance.

The Renewable Resource Management domain provides students with an understanding of:

- the interactions between physical and biological factors that determine the nature and dynamics of populations and entities in the natural environment;
- the ways in which ecosystems can be managed to meet specific goals for the provision of goods and services;
- the economic and social factors that determine how ecosystems are managed;
- the ways in which management of natural resources can affect the capability of natural ecosystems to continue to supply human needs in perpetuity; and
- the approaches and technologies required to monitor and analyze the dynamics of natural and managed ecosystems.

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - Basic Principles of Ecosystem Processes and Diversity

6 credits - 3 credits from each category of Statistics and GIS

6 credits - Advanced Ecosystem Components

6 credits - Advanced Ecological Processes

6 credits - Social Processes

9 credits - Ecosystem Components or Management of Ecosystems

Basic Principles of Ecosystem Processes

9 credits of basic principles of ecosystem processes and diversity are selected as follows:

One of:

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
AEBI 211	Organisms 2.	3
BIOL 305	Animal Diversity.	3

One of:

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
ENVB 305	Population and Community Ecology.	3

One of:

Expand allContract all

Course	Title	Credits
ENVB 210	The Biophysical Environment.	3
GEOG 305	Soils and Environment.	3

Statistics

One of:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
BIOL 373	Biometry.	3

GIS Methods

One of:

Course	Title	Credits
ENVB 529	GIS for Natural Resource Management.	3
GEOG 201	Introductory Geo-Information Science.	3

Advanced Ecosystem Components

6 credits of advanced ecosystem components selected from:

Course	Title	Credits
BIOL 553	Neotropical Environments.	3
GEOG 372	Running Water Environments.	3
PLNT 358	Flowering Plant Diversity.	3
SOIL 326	Soils in a Changing Environment.	3
WILD 307	Natural History of Vertebrates.	3

Advanced Ecological Processes

6 credits of advanced ecological processes selected from:

Course	Title	Credits
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 432	Limnology.	3
BIOL 465	Conservation Biology.	3
BREE 217	Hydrology and Water Resources. ¹	3
ENVB 410	Ecosystem Ecology.	3
ENVB 500	Advanced Topics in Ecotoxicology. ¹	3
GEOG 322	Environmental Hydrology.	3
MICR 331	Microbial Ecology.	3
NRSC 333	Pollution and Bioremediation.	3
PLNT 460	Plant Ecology.	3

¹ Note: you can take BREE 217 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology., but not both.

Social Processes

6 credits of social processes selected as follows:

Course	Title	Credits
AGEC 333	Resource Economics. ¹	3
ANTH 339	Ecological Anthropology.	3
ECON 405	Natural Resource Economics. ¹	3
ENVR 421	Montreal: Environmental History and Sustainability.	3

GEOG 340	Sustainability in the Caribbean.	3
GEOG 498	Humans in Tropical Environments.	3
RELG 270	Religious Ethics and the Environment.	3
1 Note: You may take AGEC 333 Resource Economics, and ECON 405 Natural Resource Economics., but not both.		

Ecosystem Components or Management of Ecosystems

9 credits of ecosystem components or management of ecosystems selected from:

Expand allContract all

Course	Title	Credits
AGRI 452	Water Resources in Barbados.	3
AGRI 550	Sustained Tropical Agriculture.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 404	Environmental Management 2.	3
WILD 401	Fisheries and Wildlife Management.	3
WOOD 441	Integrated Forest Management.	3

Environment Major - Water Environments and Ecosystems (B.Sc. (Ag.Env.Sc.)) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

The Major Environment - Water Environments and Ecosystems program is an introduction to the atmospheric processes as well as the anthropogenic processes that shape our water environments, and the interconnectedness between these environments and natural and human-built ecosystems. The program includes two streams in which to specialize: the Biological Stream focuses on the ecological facet of the water environment and the mechanisms regulating the different forms of life in water bodies; and the Physical Stream focuses on the physical facet of the water environment, and the transport and transformation mechanisms of water on the planet, from rivers to the ocean and atmosphere.

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required and complementary courses.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Complementary Courses (42 credits)

Senior Research Project

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	1
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6
GEOG 451	Research in Society and Development in Africa.	1
		3

¹ 3 credits will be applied to the program; extra credits will count as electives.

Hydrology and Ecology

3 credits from:

Expand allContract all

Course	Title	Credits
BREE 217	Hydrology and Water Resources.	3
GEOG 322	Environmental Hydrology.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
ENVB 305	Population and Community Ecology.	3

Statistics

3 credits from:

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3

Note: Credit for statistics courses is subject to certain restrictions.

Student in the Faculty of Science should consult "Course Overlap" information in the "Course Requirements" section of the Catalogue for the Faculty of Science.

Field Course

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 334D1	Applied Tropical Ecology.	1.5
BIOL 334D2	Applied Tropical Ecology.	1.5
BIOL 335	Marine Mammals.	3
BIOL 343	Biodiversity in the Caribbean.	3
GEOG 495	Field Studies - Physical Geography.	3
WILD 401	Fisheries and Wildlife Management.	3
	27 credits from one of the following two streams:	

**Biological Stream
Social Sciences and Policy**

3-6 credits from:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
ANSC 555	The Use and Welfare of Animals.	3
ANTH 339	Ecological Anthropology.	3
ANTH 418	Environment and Development.	3
COMS 360	Environmental Communication.	3
ECON 225	Economics of the Environment.	3
ECON 326	Ecological Economics.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 404	Environmental Management 2.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 530	Global Land and Water Resources.	3
HIST 510	Environmental History of Latin America (Field).	3
POLI 345	International Organizations.	3
POLI 350	Global Environmental Politics.	3
WCOM 314	Communicating Science.	3
WILD 421	Wildlife Conservation.	3

Water Environments and Habitats

12-15 credits from:

Expand allContract all

Course	Title	Credits
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3

BIOL 432	Limnology.	3
BIOL 441	Biological Oceanography.	3
BIOL 465	Conservation Biology.	3
BIOL 540	Ecology of Species Invasions. ¹	3
BIOL 553	Neotropical Environments.	3
BREE 533	Water Quality Management.	3
ENVB 210	The Biophysical Environment. ¹	3
ENVB 410	Ecosystem Ecology.	3
ENVB 500	Advanced Topics in Ecotoxicology. ¹	3
ENVR 540	Ecology of Species Invasions.	3
GEOG 470	Wetlands.	3
GEOG 305	Soils and Environment.	3
MICR 331	Microbial Ecology.	3
NRSC 333	Pollution and Bioremediation.	3
PARA 410	Environment and Infection.	3
SOIL 535	Soil Ecology.	3
WILD 302	Fish Ecology.	3

Surface and Atmospheric Processes

6-9 credits from:

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere. ¹	3
ATOC 219	Introduction to Atmospheric Chemistry.	3
ATOC 341	Caribbean Climate and Weather.	3
BIOL 515	Advances in Aquatic Ecology.	3
BREE 509	Hydrologic Systems and Modelling.	3
CHEM 219	Introduction to Atmospheric Chemistry. ¹	3
CHEM 267	Introductory Chemical Analysis.	3
ENVB 529	GIS for Natural Resource Management. ¹	3
ENVB 530	Advanced GIS for Natural Resource Management.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 325	Environmental Geochemistry.	3
EPSC 519	Isotopes in Earth and Environmental Science. ¹	3
EPSC 522	Advanced Environmental Hydrology.	3
GEOG 201	Introductory Geo-Information Science. ¹	3
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 505	Global Biogeochemistry.	3
GEOG 506	Advanced Geographic Information Science. ¹	3
GEOG 522	Advanced Environmental Hydrology.	3
GEOG 550	Historical Ecology Techniques.	3

¹ You may take only one of: ATOC 219 or CHEM 219; ENVB 529 or GEOG 201; EPSC 522 or GEOG 522.

Physical Stream Atmosphere and Thermodynamics

6 credits from:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 315	Thermodynamics and Convection.	3

Advanced Hydrology

3 credits from:

Expand allContract all

Course	Title	Credits
BREE 509	Hydrologic Systems and Modelling.	3
BREE 533	Water Quality Management.	3
EPSC 522	Advanced Environmental Hydrology.	3
EPSC 549	Hydrogeology.	3
GEOG 522	Advanced Environmental Hydrology.	3

Intermediate Calculus

3 credits from:

Expand allContract all

Course	Title	Credits
AEMA 202	Intermediate Calculus.	3
MATH 222	Calculus 3.	3

Engineering/Mathematics/Hydrology

6-9 credits from:

Expand allContract all

Course	Title	Credits
AEMA 305	Differential Equations. ¹	3
ATOC 309	Weather Radars and Satellites.	3
BREE 416	Engineering for Land Development.	3
BREE 420	Engineering for Sustainability.	3
BREE 506	Advances in Drainage Management. ¹	3
BREE 509	Hydrologic Systems and Modelling.	3
BREE 510	Watershed Systems Management.	3
BREE 533	Water Quality Management.	3
CIVE 323	Hydrology and Water Resources.	3
ENVB 210	The Biophysical Environment. ¹	3
ENVB 529	GIS for Natural Resource Management. ¹	3
ENVB 530	Advanced GIS for Natural Resource Management.	3
EPSC 522	Advanced Environmental Hydrology. ¹	3
EPSC 549	Hydrogeology.	3

GEOG 201	Introductory Geo-Information Science. ¹	3
GEOG 305	Soils and Environment.	3
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 506	Advanced Geographic Information Science. ¹	3
GEOG 522	Advanced Environmental Hydrology.	3
MATH 315	Ordinary Differential Equations. ¹	3
SOIL 315	Soil Nutrient Management. ¹	3

¹ You may take only one of: ENVB 529 or GEOG 201; ENVB 530 or GEOG 506; ENVB 210 or GEOG 305; AEMA 305 or MATH 315; EPSC 522 or GEOG 522.

Marine and Freshwater Biology

6-9 credits from:

Course	Title	Credits
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
BIOL 432	Limnology.	3
BIOL 441	Biological Oceanography.	3
BIOL 465	Conservation Biology.	3
BIOL 553	Neotropical Environments.	3
ENVB 410	Ecosystem Ecology.	3
GEOG 470	Wetlands.	3
GEOG 505	Global Biogeochemistry.	3
GEOG 530	Global Land and Water Resources.	3
WILD 302	Fish Ecology.	3
WILD 421	Wildlife Conservation.	3

Environment Major- Biodiversity and Conservation (B.Sc.(Ag.Env.Sc.)) or (B.Sc.) (63 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 63

Program Description

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

This domain links the academic study of biological diversity with the applied field of conservation biology. The study of biological diversity, or "biodiversity," lies at the intersection of evolution with ecology and genetics, combining the subdisciplines of evolutionary ecology, evolutionary genetics, and ecological genetics. It has two main branches: the creation of diversity and the maintenance of diversity.

Both processes are governed by a general mechanism of selection acting over different scales of space and time. This gives rise to a distinctive set of principles and generalizations that regulate rates of diversification and levels of diversity, as well as the abundance or rarity of different species. Conservation biology constitutes the application of these principles in the relevant social and economic context to the management of natural systems, with the object of preventing the extinction of rare species and maintaining the diversity of communities. As the impact of industrialization and population growth on natural systems has become more severe, conservation has emerged as an important area of practical endeavour.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and Macdonald campus in Sainte-Anne-de-Bellevue.

Required Courses (18 credits)

Location Note: ENVR courses are taught at both McGill's Downtown campus and Macdonald campus. You should register in Section 001 of an ENVR course on the Downtown campus, and in Section 051 of an ENVR course on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Complementary Courses (45 credits)

Senior Research Project

3 credits will be applied to the program; extra credits will count as electives.

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 427	Barbados Interdisciplinary Project.	6
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6

FSCI 444	Barbados Research Project.	6
GEOG 451	Research in Society and Development in Africa.	3

Biological Principles of Diversity/ Systematics/ Conservation

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 212	Evolution and Phylogeny.	3
BIOL 304	Evolution.	3

3 credits from:

Expand allContract all

Course	Title	Credits
AEBI 211	Organisms 2.	3
BIOL 305	Animal Diversity.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 465	Conservation Biology.	3
WILD 421	Wildlife Conservation.	3

Ecology

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 308	Ecological Dynamics.	3
ENVB 305	Population and Community Ecology.	3

Statistics

3 credits from the following Statistics courses or equivalent:

Note: Other appropriate statistics courses may be approved as substitutions by the Program Adviser. Credit given for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult the "Course Overlap" information in the "Course Requirements" section of the e-Calendar for the Faculty of Science.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3

Science, Policy, and Management

9 credits from:

Expand allContract all

Course	Title	Credits
AEBI 423	Sustainable Land Use.	3
AGEC 200	Principles of Microeconomics. ¹	3

AGEC 430	Agriculture, Food and Resource Policy.	3	BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
BIOL 451	Research in Ecology and Development in Africa. ¹	3	BIOL 432	Limnology.	3
ECON 208	Microeconomic Analysis and Applications.	3	BIOL 441	Biological Oceanography.	3
ECON 225	Economics of the Environment.	3	BIOL 515	Advances in Aquatic Ecology. ¹	3
ENVB 437	Assessing Environmental Impact.	3	BREE 217	Hydrology and Water Resources. ¹	3
ENVR 422	Montreal Urban Sustainability Analysis.	3	BREE 529	GIS for Natural Resource Management. ¹	3
GEOG 302	Environmental Management 1.	3	ENVB 313	Phylogeny and Biogeography.	3
GEOG 340	Sustainability in the Caribbean.	3	ENVB 500	Advanced Topics in Ecotoxicology. ¹	3
GEOG 360	Analyzing Sustainability.	3	ENVB 529	GIS for Natural Resource Management. ¹	3
GEOG 408	Geography of Development.	3	GEOG 272	Earth's Changing Surface.	3
NRSC 451	Research in Ecology and Development in Africa.	3	GEOG 321	Climatic Environments. ¹	3
PLNT 312	Urban Horticulture.	3	GEOG 322	Environmental Hydrology.	3
POLI 345	International Organizations.	3	LSCI 204	Genetics.	3
POLI 350	Global Environmental Politics.	3	MICR 331	Microbial Ecology.	3
WCOM 314	Communicating Science.	3	SOIL 315	Soil Nutrient Management.	3

¹ You may take AGEC 200 Principles of Microeconomics. or ECON 208 Microeconomic Analysis and Applications., but not both.

Field Courses

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 334D1	Applied Tropical Ecology.	1.5
BIOL 334D2	Applied Tropical Ecology.	1.5
BIOL 335	Marine Mammals.	3
BIOL 553	Neotropical Environments.	3
ENTO 340	Field Entomology.	3
ENVB 410	Ecosystem Ecology.	3
GEOG 495	Field Studies - Physical Geography.	3
PLNT 358	Flowering Plant Diversity.	3
PLNT 460	Plant Ecology.	3
WILD 401	Fisheries and Wildlife Management.	3
WILD 475	Desert Ecology.	3
WOOD 441	Integrated Forest Management.	3

General Scientific Principles

6 credits from:

Expand allContract all

Course	Title	Credits
ANSC 326	Fundamentals of Population Genetics. ¹	3
ATOC 341	Caribbean Climate and Weather.	3
BIOL 202	Basic Genetics.	3
BIOL 216	Biology of Behaviour.	3
BIOL 324	Ecological Genetics. ¹	3

A second field course from the program curriculum may also be taken.

¹ Note: You may take one of BREE 529 GIS for Natural Resource Management., ENVB 529 GIS for Natural Resource Management. or GEOG 314 Geospatial Analysis.; you may take one of GEOG 322 Environmental Hydrology. or BREE 217 Hydrology and Water Resources.; you may take one of ANSC 326 Fundamentals of Population Genetics. or BIOL 324 Ecological Genetics..

Social Science

3 credits from:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANSC 555	The Use and Welfare of Animals.	3
ANTH 339	Ecological Anthropology.	3
ANTH 416	Environment/Development: Africa.	3
ANTH 451	Research in Society and Development in Africa.	3
ECON 326	Ecological Economics.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 404	Environmental Management 2.	3
GEOG 498	Humans in Tropical Environments.	3
GEOG 530	Global Land and Water Resources.	3

Organisms and Diversity

6 credits from:

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AGRI 340	Principles of Ecological Agriculture.	3

BIOL 310	Biodiversity and Ecosystems.	3	• The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
BIOL 343	Biodiversity in the Caribbean.	3	
BIOL 352	Dinosaur Biology.	3	
BIOL 427	Herpetology.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
BIOL 510	Advances in Community Ecology.	3	
BIOL 540	Ecology of Species Invasions. ¹	3	
ENTO 330	Insect Biology.	3	
ENVR 540	Ecology of Species Invasions.	3	
PARA 424	Fundamental Parasitology.	3	
PLNT 304	Biology of Fungi.	3	
PLNT 434	Weed Biology and Control.	3	
REDM 400	Science and Museums.	3	
WILD 307	Natural History of Vertebrates.	3	
WILD 350	Mammalogy.	3	
WILD 420	Ornithology.	3	

¹ Note: If chosen, you may take either ENTO 330 or BIOL 350.

Environment Major - Atmospheric Environment and Air Quality (B.Sc.) (60 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science

Program credit weight: 60

Program Description

The rapid expansion of industrialization has been accompanied by a host of environmental problems, many, if not most, involving the atmosphere. Some problems are of a local nature, such as air pollution in large urban centres, while others are global, or at least reach areas far removed from industrial activities.

The emphasis in this domain is on the mechanisms of atmospheric flow and on atmospheric chemistry. Courses examine how the atmosphere transports pollution, lifting it to great heights into the stratosphere or keeping it trapped near the ground, moving it around the globe or imprisoning it locally, or how it simply cleanses itself of pollution through rainfall. The domain also gives students the training required to understand the important chemical reactions taking place within the atmosphere, as well as the know-how necessary to measure and analyze atmospheric constituents.

Degree Requirements — B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>).

Program Requirements

Note: Students are required to take a maximum of 31 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Required Courses (15 credits)

15 credits from:

Expand allContract all		
Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry. ¹	3
ATOC 315	Thermodynamics and Convection. ¹	3
CHEM 219	Introduction to Atmospheric Chemistry.	3
GEOG 308	Remote Sensing for Earth Observation.	3

¹ Note: You may take ATOC 219 Introduction to Atmospheric Chemistry, or CHEM 219 Introduction to Atmospheric Chemistry., but not both.

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

6 credits - Analytical Chemistry/Calculus courses

3 credits - Statistics

9 credits - Math or Physical Science

6 credits - Social Science

Analytical Chemistry/Calculus

One of: (students will not receive credit for both):

Expand allContract all		
Course	Title	Credits
AEMA 202	Intermediate Calculus.	3
MATH 222	Calculus 3.	3

Expand allContract all		
Course	Title	Credits
CHEM 267	Introductory Chemical Analysis. ¹	3
FDSC 213	Analytical Chemistry 1. ¹	3

¹ Note: Students take either CHEM 267 Introductory Chemical Analysis. or FDSC 213 Analytical Chemistry 1..

Statistics

3 credits of Statistics courses or equivalent from:

Expand allContract all		
Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
MATH 203	Principles of Statistics 1.	3

Math or Physical Science

9 credits of Math or Physical Science (at least 6 credits of which are at the 300 level or above):

Expand allContract all		
Course	Title	Credits
AEMA 305	Differential Equations. ¹	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 519	Advances in Chemistry of Atmosphere. ¹	3
ATOC 540	Synoptic Meteorology 1.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 519	Advances in Chemistry of Atmosphere. ¹	3
CIVE 225	Environmental Engineering.	4
CIVE 561	Greenhouse Gas Emissions.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
GEOG 505	Global Biogeochemistry.	3
MATH 223	Linear Algebra.	3
MATH 315	Ordinary Differential Equations. ¹	3
NRSC 333	Pollution and Bioremediation.	3

¹ Note: You may take ATOC 519 Advances in Chemistry of Atmosphere. or CHEM 519 Advances in Chemistry of Atmosphere., but not both; you may take AEMA 305 Differential Equations. or MATH 315 Ordinary Differential Equations., but not both.

Social Science

6 credits from:

Expand allContract all		
Course	Title	Credits
ANTH 206	Environment and Culture.	3
ANTH 418	Environment and Development.	3
ECON 225	Economics of the Environment.	3
ECON 347	Economics of Climate Change.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3
GEOG 221	Environment and Health.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 340	Sustainability in the Caribbean.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 404	Environmental Management 2.	3
GEOG 498	Humans in Tropical Environments.	3
RELG 270	Religious Ethics and the Environment.	3

Environment Major - Earth Sciences and Economics (B.Sc.) (66 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The resources necessary for human society are extracted from the Earth, used as raw materials in our factories and refineries, and then returned to the Earth as waste. Geological processes produce resources humans depend on, and they also determine the fate of wastes in the environment. Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. Additionally, economics frequently affects what energy sources power our society and how our wastes are treated. Earth sciences and economics are essential for our understanding of the many mechanisms, both physical and social, that affect Earth's environment.

This domain includes the fundamentals of each discipline. Students learn of minerals, rocks, soils, and waters and how these materials interact with each other and with the atmosphere. Fundamental economic theory and the economic effects of public policy toward resource industries, methods of waste disposal, and the potential effects of global warming on the global economy are also explored.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because

courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

Expand allContract all

Course	Title	Credits
ENVR 401	Environmental Research.	3
ENVR 451	Research in Panama.	6
FSCI 444	Barbados Research Project.	6

Domain: Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3
ECON 405	Natural Resource Economics.	3
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 240	Geology in the Field.	3

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

3 credits - Statistics courses

12 credits - Economic Resources

9 credits - Natural Resources

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Expand allContract all

Course	Title	Credits
AEMA 310	Statistical Methods 1.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3

Economic Resources

12 credits from:

Expand allContract all

Course	Title	Credits
AGEC 333	Resource Economics.	3
ECON 209	Macroeconomic Analysis and Applications.	3
ECON 305	Industrial Organization.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 408	Public Sector Economics 1.	3
ECON 409	Public Sector Economics 2.	3
ECON 416	Topics in Economic Development 2.	3
ECON 511	Energy, Economy and Environment.	3
ECON 525	Project Analysis.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 422	Montreal Urban Sustainability Analysis.	3

Natural Resources

9 credits from:

Expand allContract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
ANTH 451	Research in Society and Development in Africa.	3
BIOL 343	Biodiversity in the Caribbean.	3
BIOL 451	Research in Ecology and Development in Africa.	3
BIOL 553	Neotropical Environments.	3
ENVB 500	Advanced Topics in Ecotoxicology.	3
ENVB 529	GIS for Natural Resource Management.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
EPSC 325	Environmental Geochemistry.	3
EPSC 331	Field School 2.	3

EPSC 341	Field School 3.	3
EPSC 355	Sedimentary Geology.	3
EPSC 425	Sediments to Sequences.	3
EPSC 452	Mineral Deposits.	3
EPSC 519	Isotopes in Earth and Environmental Science.	3
EPSC 549	Hydrogeology.	3
EPSC 590	Applied Geochemistry Seminar.	3
GEOG 201	Introductory Geo-Information Science.	3
GEOG 302	Environmental Management 1.	3
GEOG 305	Soils and Environment.	3
GEOG 322	Environmental Hydrology.	3
GEOG 451	Research in Society and Development in Africa.	3
MIME 320	Extraction of Energy Resources.	3
NRSC 451	Research in Ecology and Development in Africa.	3
SOIL 300	Geosystems.	3
SOIL 315	Soil Nutrient Management.	3
SOIL 326	Soils in a Changing Environment.	3
SOIL 535	Soil Ecology.	3

¹ ANTH 451 Research in Society and Development in Africa. or GEOG 451 Research in Society and Development in Africa. can be taken, but not both; BIOL 451 Research in Ecology and Development in Africa. or NRSC 451 Research in Ecology and Development in Africa. can be taken, but not both; ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-Information Science. can be taken, but not both.

Environment Honours (B.A.) (60 credits)

Offered by: Bieler School of Environment**Degree:** Bachelor of Arts**Program credit weight:** 60

Program Description

This program is open only to students in the B.A. Faculty Program Environment. To be eligible for Honours, students must satisfy the requirements set by their B.A. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 and ENVR 495D2).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. Arts (B.A.) students in the Honours Environment program must also complete a minor concentration in an academic unit other than the Bieler School of Environment. Please refer to the Faculty of Arts

regulations on Honours programs found under "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs".

Students in the B.A. Honours programs complete the core and domain courses (54 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the Bieler School of Environment Program Adviser.

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Honours Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research. ¹	3
ENVR 495D2	Honours Research. ¹	3
ENVR 495N1	Honours Research. ¹	3
ENVR 495N2	Honours Research. ¹	3

¹ Note: You take either ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Environment Honours (B.Sc.) (72 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science

Program credit weight: 72

Program Description

This program is open only to students in the B.Sc. Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 and ENVR 495D2).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc. Honours programs complete the core and domain courses (60 to 66 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the Bieler School of Environment Program Adviser.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Honours Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research. ¹	3
ENVR 495D2	Honours Research. ¹	3
ENVR 495N1	Honours Research. ¹	3
ENVR 495N2	Honours Research. ¹	3

¹ Note: You take either ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Environment Honours (B.A. & Sc.) (60 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts and Science

Program credit weight: 60

Program Description

This program is open only to students in the B.A. & Sc. Interfaculty Program Environment. To be eligible for Honours, students must satisfy the requirements set by their B.A. & Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.

2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 and ENVR 495D2).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. B.A. & Sc. students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their Honours program and their Minor concentration or Minor program. For a list of available Minor concentrations or Minor programs, see "Overview of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the coursework (54 credits) for the Interfaculty Program in Environment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the Bieler School of Environment Program Adviser.

Degree Requirements – B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Honours Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research.	3
ENVR 495D2	Honours Research.	3
ENVR 495N1	Honours Research.	3
ENVR 495N2	Honours Research.	3

¹ Note: You take either ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Environment Honours (B.Sc. (Ag.Env.Sc.)) (69 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Science (Agricultural and Environmental Sciences)

Program credit weight: 69

Program Description

This program is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc.(Ag.Env.Sc.) degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495D1 and ENVR 495D2).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc.(Ag.Env.Sc.) Honours program complete the core and domain courses (60 to 63 credits) according to their chosen domain as well as the 6 credits of required Honours courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the Bieler School Program Adviser.

Honours - Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 495D1	Honours Research.	3
ENVR 495D2	Honours Research.	3
ENVR 495N1	Honours Research.	3
ENVR 495N2	Honours Research.	3

¹ Note: Students take either ENVR 495D1 Honours Research. and ENVR 495D2 Honours Research. (6 credits over consecutive terms) or ENVR 495N1 Honours Research. and ENVR 495N2 Honours Research. (6 credits over non-consecutive terms).

Environment Joint Honours Component (B.A.) (36 credits)

Offered by: Bieler School of Environment

Degree: Bachelor of Arts

Program credit weight: 36

Program Description

Students wishing to study at the honours level in two disciplines can combine joint honours program components in any two Arts disciplines. For a list of available joint honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department for approval of their course selection and their interdisciplinary honours research project.

Students will enter the Joint Honours at the end of their U1 year, and will be required to maintain a PGPA of 3.30 and an overall CGPA of 3.0. Whereas the Faculty Program Environment Honours requires the student to undertake a Minor as well, the Joint Honours Environment component does not.

This program comprises 36 credits, including:

- Honours research (6 credits);
- Environment core (21 credits);
- statistics (3 credits); and
- complementary courses (6 credits).

Degree Requirements – B.A. students

To be eligible for a B.A. degree, a student must fulfil all Faculty and program requirements as indicated in Degree Requirements for the Faculty of Arts.

We recommend that students consult an Arts OASIS advisor for degree planning.

Program Prerequisites or Corequisites

The program corequisites (6-8 credits), which are common to the stand-alone Environment Honours program, are in addition to the overall credit account. Students are required to complete these courses by the end of their U1 year.

3 credits of Basic Science, one of the following, or equivalent (e.g., CEGEP objectives Biology 00UK, Chemistry 00UL, Physics 00UR):

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
CHEM 110	General Chemistry 1.	4
PHYS 101	Introductory Physics - Mechanics.	4

And one of the following:

3 credits of Calculus or equivalent (e.g., CEGEP objective 00UN):

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3

ENVR 400	Environmental Thought.	3
ENVR 401	Environmental Research.	3

Complementary Courses (15 credits) Statistics

3 credits of statistics from the following (or equivalent):

Expand allContract all

Course	Title	Credits
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Honours Research

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 494	Joint Honours Research.	3
ENVR 495D1	Honours Research.	3
ENVR 495D2	Honours Research.	3
ENVR 495N1	Honours Research.	3
ENVR 495N2	Honours Research.	3

Note: Students must complete 6 credits of honours research between the two components of the program. If the second component requires 0 credits of honours research, the student must take 6 credits of ENVR honours research. If the second component requires 3 credits of honours research, the student must take 3 credits of ENVR honours research. If the second component requires 6 credits of honours research, the student is not required to take any credits of ENVR honours research. Students may not count the same honours research credits towards both components.

6-12 credits chosen with approval of the Program Adviser. A maximum of 3 credits of these courses may be at 200 or 300 level.

Environment (Dip.) (30 credits)

Offered by: Bieler School of Environment

Degree: Diploma in Environment

Program credit weight: 30

Program Description

The Diploma in Environment is designed for students with an undergraduate degree who wish to enrich or reorient their training, supplementing their specialization with additional undergraduate-level course work in Environment.

The Diploma requires 30 credits of full-time or part-time studies at McGill and is a one-year program if taken full-time.

Students holding a B.Sc. or a B.A. degree or equivalent in good standing will be permitted to register for the Diploma through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or

the Faculty of Science, provided they are otherwise acceptable for admission to the University.

Advising Note

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. All courses must be at the 200 level and above, and completed with a grade of C or better.

Required Courses (18 credits)

The core ENVR courses are offered on both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 301	Environmental Research Design.	3
ENVR 400	Environmental Thought.	3

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

3 credits selected with the approval of the Program Advisor in an area outside of the student's previous degree (e.g., those with a B.A. or equivalent degree must take at least 3 credits in the natural sciences; those with a B.Sc. or equivalent degree must take at least 3 credits in the social sciences). A list of Suggested Courses is given below.

9 credits in an area of focus chosen by the student with the approval of the Program Advisor. At least 6 credits must be taken at the 400 level or higher. A list of Suggested Courses is given below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Advisor.

Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students). If in doubt, ask the Program Advisor.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

Expand allContract all

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ANTH 418	Environment and Development.	3
ANTH 512	Political Ecology.	3
ECON 205	An Introduction to Political Economy.	3
ECON 225	Economics of the Environment.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
EDER 494	Human Rights and Ethics in Practice.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
ENVR 421	Montreal: Environmental History and Sustainability.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 221	Environment and Health.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 301	Geography of Nunavut.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 403	Global Health and Environmental Change.	3
GEOG 408	Geography of Development.	3
GEOG 423	Dilemmas of Development.	3
GEOG 530	Global Land and Water Resources.	3
HIST 249	Health and the Healer in Western History.	3
HIST 292	History and the Environment.	3
NRSC 221	Environment and Health.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 334	Ethical Theory.	3

PHIL 341	Philosophy of Science 1.	3	BREE 217	Hydrology and Water Resources. ¹	3
PHIL 343	Biomedical Ethics.	3	BREE 322	Management of Organic Residue	3
PHIL 348	Philosophy of Law 1.	3	BREE 327	Bio-Environmental Engineering.	3
POLI 212	Introduction to Comparative Politics – Europe/North America.	3	BREE 518	Ecological Engineering.	3
			CHEM 212	Introductory Organic Chemistry 1.	4
POLI 227	Introduction to Comparative Politics - Global South.	3	CHEM 281	Inorganic Chemistry 1.	3
POLI 345	International Organizations.	3	CIVE 225	Environmental Engineering. ¹	4
POLI 350	Global Environmental Politics.	3	CIVE 323	Hydrology and Water Resources.	3
POLI 412	Canadian Voting/Public Opinion.	3	CIVE 550	Water Resources Management. ¹	3
POLI 445	International Political Economy: Monetary Relations.	3	COMP 202	Foundations of Programming. ¹	3
PSYC 215	Social Psychology.	3	COMP 204	Computer Programming for Life Sciences. ¹	3
RELG 270	Religious Ethics and the Environment.	3	ENVB 210	The Biophysical Environment.	3
RELG 370	Religion and Human Rights.	3	ENVB 301	Meteorology. ¹	3
SOCI 222	Urban Sociology.	3	ENVB 305	Population and Community Ecology. ¹	3
SOCI 234	Population and Society.	3	ENVB 410	Ecosystem Ecology.	3
SOCI 235	Technology and Society.	3	ENVB 415	Ecosystem Management. ¹	3
SOCI 254	Development and Underdevelopment.	3	ENVB 529	GIS for Natural Resource Management. ¹	3
SOCI 307	Globalization.	3	ENVR 200	The Global Environment.	3
SOCI 365	Health and Development.	3	ENVR 202	The Evolving Earth. ¹	3
SOCI 366	Neighborhoods and Inequality .	3	ENVR 422	Montreal Urban Sustainability Analysis.	3
SOCI 386	Contemporary Social Movements.	3	EPSC 201	Understanding Planet Earth.	3
URBP 201	Planning the 21st Century City.	3	or EPSC 233	Earth and Life Through Time ¹	
URBP 504	Planning for Active Transportation.	3	EPSC 233	Earth and Life Through Time ¹	3
URBP 506	Environmental Policy and Planning.	3	EPSC 549	Hydrogeology.	3
URBP 530	Urban Infrastructure and Services in International Context .	3	ESYS 301	Earth System Modelling.	3
URBP 551	Urban Design and Planning.	3	GEOG 200	Geographical Perspectives: World Environmental Problems.	3
WCOM 314	Communicating Science.	3	GEOG 201	Introductory Geo-Information Science.	3
			GEOG 205	Global Change: Past, Present and Future.	3
			GEOG 272	Earth's Changing Surface.	3
			GEOG 308	Remote Sensing for Earth Observation.	3

Natural Sciences and Technology

Expand allContract all

Course	Title	Credits			
AGRI 340	Principles of Ecological Agriculture.	3	GEOG 321	Climatic Environments.	3
ANSC 326	Fundamentals of Population Genetics.	3	GEOG 322	Environmental Hydrology. ¹	3
ATOC 214	Introduction: Physics of the Atmosphere.	3	GEOG 372	Running Water Environments.	3
ATOC 215	Oceans, Weather and Climate.	3	GEOG 470	Wetlands.	3
BIOL 240	Monteregian Flora.	3	GEOG 550	Historical Ecology Techniques. ¹	3
BIOL 305	Animal Diversity.	3	LSCI 230	Introductory Microbiology.	3
BIOL 308	Ecological Dynamics. ¹	3	MICR 331	Microbial Ecology.	3
BIOL 310	Biodiversity and Ecosystems.	3	MIME 320	Extraction of Energy Resources. ¹	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3	MIMM 211	Introductory Microbiology.	3
BIOL 418	Freshwater Invertebrate Ecology.	3	MIMM 214	Introductory Immunology: Elements of Immunity.	3
BIOL 432	Limnology.	3	MIMM 323	Microbial Physiology.	3
BIOL 436	Evolution and Society.	3	NRSC 333	Pollution and Bioremediation.	3
BIOL 465	Conservation Biology. ¹	3	PARA 410	Environment and Infection.	3
			PARA 515	Water, Health and Sanitation.	3
			PHYS 228	Energy and the Environment.	3

PLNT 304	Biology of Fungi.	3	LAWG 101D1	Extra-Contractual Obligations/Torts.	3
PLNT 305	Plant Pathology.	3	LAWG 101D2	Extra-Contractual Obligations/Torts.	3
PLNT 358	Flowering Plant Diversity.	3	LAWG 102D1	Criminal Justice.	3
PLNT 460	Plant Ecology.	3	LAWG 102D2	Criminal Justice.	3
SOIL 300	Geosystems.	3	LAWG 103	Indigenous Legal Traditions.	3
WILD 302	Fish Ecology.	3	LAWG 110D1	Integration Workshop.	1.5
WILD 421	Wildlife Conservation. ¹	3	LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3	PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3			

¹ Note: you may take LSCI 230 Introductory Microbiology, or MIMM 211 Introductory Microbiology, but not both; you may take ENVB 529 GIS for Natural Resource Management, or GEOG 201 Introductory Geo-Information Science, but not both; you may take one of BREE 217 Hydrology and Water Resources, CIVE 323 Hydrology and Water Resources, or GEOG 322 Environmental Hydrology; you may take BIOL 308 Ecological Dynamics, or ENVB 305 Population and Community Ecology, but not both; you may take BIOL 465 Conservation Biology, or WILD 421 Wildlife Conservation, but not both; you may take COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, but not both; you may take EPSC 201 Understanding Planet Earth, or EPSC 233 Earth and Life Through Time, but not both.

Honours Law (B.C.L./J.D.) (120 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 120

Program Requirements

The B.C.L and J.D. with Honours program is open to students who have completed four terms of study at the Faculty of Law and who, during that time, have maintained a GPA of 3.0. Students must complete 15 credits of Honours Thesis courses in addition to the 105 credits required in the B.C.L and J.D. program. Conditional upon submission and approval of an Honours Thesis, students will be granted a B.C.L. and J.D. with Honours.

Required - Honours Thesis Courses (15 credits)

Expand allContract all

Course	Title	Credits
WRIT 450	Honours Thesis 1.	3
WRIT 451	Honours Thesis 2.	6
WRIT 452	Honours Thesis 3.	6

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

Expand allContract all

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3

Second Year

The following 13 credits of courses may be taken only in the second year:

Expand allContract all

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3
PROC 124	Judicial Institutions and Civil Procedure.	4

Any Year

The following 1 credit course may be taken in any year after completing the first year:

Expand allContract all

Course	Title	Credits
PRAC 200	Advocacy.	1

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

Expand allContract all

Course	Title	Credits
BUS2 561	Insurance.	3
LAWG 506	Advanced Civil Law Property.	3
PROC 200	Advanced Civil Law Obligations.	3
PRV1 549	Contrats nommés/Nominate Contracts.	3
PRV2 270	Law of Persons.	3
PRV4 548	Administration Property of Another and Trusts.	3

Common Law Immersion Courses

3 credits from the following list of common law courses:

Expand allContract all

Course	Title	Credits
PRV3 200	Advanced Common Law Obligations.	3
PRV3 534	Remedies.	3
PRV4 500	Restitution.	3

PRV4 549	Equity and Trusts.	3	CMPL 577	Communications Law.	3
PRV5 582	Advanced Torts.	3	CMPL 580	Environment and the Law.	3
			LAWG 523	Tax Practice Seminar.	3
			LAWG 561	Privacy Law.	3
			LAWG 581	Health Care Delivery and the Law.	3
			LAWG 583	Public Health Law and Policy.	3

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

Course	Title	Credits	Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3	LEEL 369	Labour Law.	3
CMPL 504	Feminist Legal Theory.	3	LEEL 570	Employment Law.	3
CMPL 511	Social Diversity and Law.	3	LEEL 582	Law and Poverty.	3
CMPL 516	International Development Law.	3	PRV4 545	Land Use Planning.	3
CMPL 565	International Humanitarian Law.	3	PRV5 483	Consumer Law.	3
CMPL 571	International Law of Human Rights.	3	PUB2 400	The Administrative Process.	3
CMPL 573	Civil Liberties.	3	PUB2 401	Judicial Review of Administrative Action.	3
CMPL 575	Discrimination and the Law.	3	PUB2 500	Law and Psychiatry.	3
IDFC 500	Indigenous Field Studies.	3	PUB2 507	Prison Law and Policy	3
LAWG 503	Inter-American Human Rights.	3	PUB2 515	Tax Policy.	3
LAWG 505	Critical Engagements with Human Rights.	3	PUB2 551	Immigration and Refugee Law.	3
LAWG 507	Critical Race Theory Advanced Seminar.	3			
LAWG 508D1	Indigenous Constitutionalism.	3			
LAWG 508D2	Indigenous Constitutionalism.	3			
LAWG 509	Indigenous Law Revitalization.	3			
LAWG 562	Regulating Artificial Intelligence.	3			
LAWG 580	Women and Constitutions.	3			
LAWG 582	Disability Law and Policy.	3			
LEEL 369	Labour Law.	3			
LEEL 582	Law and Poverty.	3			
PUB2 105	Public International Law.	3			
PUB2 500	Law and Psychiatry.	3			
PUB2 502	International Criminal Law.	3			
PUB2 503	Comparative Federalism.	3			
PUB2 507	Prison Law and Policy	3			
PUB2 551	Immigration and Refugee Law.	3			

Principles of Canadian Administrative Law

3 credits from the following courses:

Course	Title	Credits	Course	Title	Credits
BUS1 532	Bankruptcy and Insolvency.	3	At the Faculty of Law, students pursue an integrated program of studies which qualifies them for the Bar Admission Programs in all Canadian provinces. The Faculty grants concurrently both its degrees - Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) - to candidates who have successfully completed 105 credits.		
BUS2 504	Securities Regulation.	3			
BUS2 506	Corporate Governance	3			
CMPL 518	Policies, Politics and Legislative Process.	3			
CMPL 539	International Taxation.	3			
CMPL 543	Law and Practice of International Trade.	3			
CMPL 574	Government Control of Business.	3			
CMPL 575	Discrimination and the Law.	3			

Elective Courses (46 credits)

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 120-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing and essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Law (B.C.L./J.D.) (105 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 105

Program Requirements

- At the Faculty of Law, students pursue an integrated program of studies which qualifies them for the Bar Admission Programs in all Canadian provinces. The Faculty grants concurrently both its degrees - Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) - to candidates who have successfully completed 105 credits.
- Students should consult the Faculty website for updates: <http://www.mcgill.ca/law-studies/>.

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

Expand allContract all

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 103	Indigenous Legal Traditions.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3
PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3

Second Year

The following 13 credits of courses may be taken only in the second year:

Expand allContract all

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3
PROC 124	Judicial Institutions and Civil Procedure.	4

Any Year

The following 1 credit course may be taken in any year after completing the first year:

Expand allContract all

Course	Title	Credits
PRAC 200	Advocacy.	1

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

Expand allContract all

Course	Title	Credits
BUS2 561	Insurance.	3
LAWG 506	Advanced Civil Law Property.	3
PROC 200	Advanced Civil Law Obligations.	3
PRV1 549	Contrats nommés/Nominate Contracts.	3

PRV2 270	Law of Persons.	3
PRV4 548	Administration Property of Another and Trusts.	3

Common Law Immersion Courses

3 credits from the following list of common law courses:

Expand allContract all

Course	Title	Credits
PRV3 200	Advanced Common Law Obligations.	3
PRV3 534	Remedies.	3
PRV4 500	Restitution.	3
PRV4 549	Equity and Trusts.	3
PRV5 582	Advanced Torts.	3

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

Expand allContract all

Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3
CMPL 504	Feminist Legal Theory.	3
CMPL 511	Social Diversity and Law.	3
CMPL 516	International Development Law.	3
CMPL 565	International Humanitarian Law.	3
CMPL 571	International Law of Human Rights.	3
CMPL 573	Civil Liberties.	3
CMPL 575	Discrimination and the Law.	3
IDFC 500	Indigenous Field Studies.	3
LAWG 503	Inter-American Human Rights.	3
LAWG 505	Critical Engagements with Human Rights.	3
LAWG 507	Critical Race Theory Advanced Seminar.	3
LAWG 508D1	Indigenous Constitutionalism.	3
LAWG 508D2	Indigenous Constitutionalism.	3
LAWG 509	Indigenous Law Revitalization.	3
LAWG 562	Regulating Artificial Intelligence.	3
LAWG 580	Women and Constitutions.	3
LAWG 582	Disability Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 582	Law and Poverty.	3
PUB2 105	Public International Law.	3
PUB2 500	Law and Psychiatry.	3
PUB2 502	International Criminal Law.	3
PUB2 503	Comparative Federalism.	3
PUB2 507	Prison Law and Policy	3
PUB2 551	Immigration and Refugee Law.	3

Principles of Canadian Administrative Law

3 credits from the following courses:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
BUS1 532	Bankruptcy and Insolvency.	3
BUS2 504	Securities Regulation.	3
BUS2 506	Corporate Governance	3
CMPL 518	Policies, Politics and Legislative Process.	3
CMPL 539	International Taxation.	3
CMPL 543	Law and Practice of International Trade.	3
CMPL 574	Government Control of Business.	3
CMPL 575	Discrimination and the Law.	3
CMPL 577	Communications Law.	3
CMPL 580	Environment and the Law.	3
LAWG 523	Tax Practice Seminar.	3
LAWG 561	Privacy Law.	3
LAWG 581	Health Care Delivery and the Law.	3
LAWG 583	Public Health Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 570	Employment Law.	3
LEEL 582	Law and Poverty.	3
PRV4 545	Land Use Planning.	3
PRV5 483	Consumer Law.	3
PUB2 400	The Administrative Process.	3
PUB2 401	Judicial Review of Administrative Action.	3
PUB2 500	Law and Psychiatry.	3
PUB2 507	Prison Law and Policy	3
PUB2 515	Tax Policy.	3
PUB2 551	Immigration and Refugee Law.	3

Elective Courses (46 credits)

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 105-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Law (B.C.L./J.D.) (with Minor) (123 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 123

Program Requirements

The B.C.L. and J.D. with Minor is open to all students enrolled in the Faculty of Law and allows them to graduate with a minor concentration offered by McGill's Faculty of Arts or a minor offered by McGill's Faculty of Science or a minor offered by McGill's Desautels Faculty of Management for Non-Management students.

Law students should consult the Faculty of Arts and Faculty of Science and the Desautels Faculty of Management sections of the Undergraduate Programs, Courses and University Regulations publication available at <http://www.mcgill.ca/study/> to determine the requirements for individual minor concentrations and minors.

B.C.L. and J.D. with Minor

In addition to the 105 credits needed for the B.C.L. and J.D. program, students complete 18 further credits toward a minor program. Since Science minors are typically 24 credits and Management minors and Arts minor concentrations are typically 18 credits, Law students will be allowed to count 6 credits of a 24-credit Science minor toward their Law degree as non-Law credits.

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 103	Indigenous Legal Traditions.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3
PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3

Second Year

The following 13 credits of courses may be taken only in the second year:

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3
PROC 124	Judicial Institutions and Civil Procedure.	4

Any Year

The following 1 credit course may be taken in any year after completing the first year:

Expand all	Contract all
Course	Title
PRAC 200	Advocacy.

Credits
1

LAWG 508D1	Indigenous Constitutionalism.	3
LAWG 508D2	Indigenous Constitutionalism.	3
LAWG 509	Indigenous Law Revitalization.	3
LAWG 562	Regulating Artificial Intelligence.	3
LAWG 580	Women and Constitutions.	3
LAWG 582	Disability Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 582	Law and Poverty.	3
PUB2105	Public International Law.	3
PUB2500	Law and Psychiatry.	3
PUB2502	International Criminal Law.	3
PUB2503	Comparative Federalism.	3
PUB2507	Prison Law and Policy	3
PUB2551	Immigration and Refugee Law.	3

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

Expand all	Contract all
Course	Title
BUS2 561	Insurance.
LAWG 506	Advanced Civil Law Property.
PROC 200	Advanced Civil Law Obligations.
PRV1 549	Contrats nommés/Nominate Contracts.
PRV2 270	Law of Persons.
PRV4 548	Administration Property of Another and Trusts.

Credits
3

Principles of Canadian Administrative Law

3 credits from the following courses:

Expand all	Contract all
Course	Title
BUS1 532	Bankruptcy and Insolvency.
BUS2 504	Securities Regulation.
BUS2 506	Corporate Governance
CMPL 518	Policies, Politics and Legislative Process.
CMPL 539	International Taxation.
CMPL 543	Law and Practice of International Trade.
CMPL 574	Government Control of Business.
CMPL 575	Discrimination and the Law.
CMPL 577	Communications Law.
CMPL 580	Environment and the Law.
LAWG 523	Tax Practice Seminar.
LAWG 561	Privacy Law.
LAWG 581	Health Care Delivery and the Law.
LAWG 583	Public Health Law and Policy.
LEEL 369	Labour Law.
LEEL 570	Employment Law.
LEEL 582	Law and Poverty.
PRV4 545	Land Use Planning.
PRV5 483	Consumer Law.
PUB2 400	The Administrative Process.
PUB2 401	Judicial Review of Administrative Action.
PUB2 500	Law and Psychiatry.
PUB2 507	Prison Law and Policy
PUB2 515	Tax Policy.
PUB2 551	Immigration and Refugee Law.

Common Law Immersion Courses

3 credits from the following list of common law courses:

Expand all	Contract all
Course	Title
PRV3 200	Advanced Common Law Obligations.
PRV3 534	Remedies.
PRV4 500	Restitution.
PRV4 549	Equity and Trusts.
PRV5 582	Advanced Torts.

Credits
3

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

Expand all	Contract all
Course	Title
CMPL 500	Indigenous Peoples and the State.
CMPL 504	Feminist Legal Theory.
CMPL 511	Social Diversity and Law.
CMPL 516	International Development Law.
CMPL 565	International Humanitarian Law.
CMPL 571	International Law of Human Rights.
CMPL 573	Civil Liberties.
CMPL 575	Discrimination and the Law.
IDFC 500	Indigenous Field Studies.
LAWG 503	Inter-American Human Rights.
LAWG 505	Critical Engagements with Human Rights.
LAWG 507	Critical Race Theory Advanced Seminar.

Credits
3

Elective Courses (46 credits)

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 123-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Law and Management (Non-Thesis): General Management (Joint B.C.L./J.D. & M.B.A.) (132 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 132

Program Description

A joint M.B.A.; Non-Thesis – General Management and B.C.L./J.D. program is offered by the Desautels Faculty of Management and the Faculty of Law. This joint program provides students the opportunity to pursue legal and administrative aspects of business. Successful candidates graduate with M.B.A., B.C.L., and J.D. degrees, a trio that prepares them for careers in private and public enterprise, as well as government service.

Students complete 39 credits for the M.B.A. and 93 credits for the integrated B.C.L./J.D., for a total of 132 credits.

Required Courses - Management (24 credits)

Expand allContract all

Course	Title	Credits
BUSA 695	Real-Time Decisions.	1.5
MGCR 613	Managerial Economics.	1.5
MGCR 614	Management Statistics.	1.5
MGCR 617	Operations Management.	1.5
MGCR 618	Leadership and Professional Skills.	1.5
MGCR 620	Information Systems.	1.5
MGCR 621	International Environment.	1.5
MGCR 622	Organizational Strategy.	1.5
MGCR 628	Integrative Course.	1.5
MGCR 638	Marketing Management.	1.5

MGCR 639	Managing Organizational Behaviour.	1.5
MGCR 640	Accounting and Financial Reporting.	1.5
MGCR 642	Financial Reporting.	1.5
MGCR 660	International Study Trip.	4.5

Elective Courses (15 credits)

15 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty. Students will have to attend the M.B.A. Base Camp (Accounting and Business Math) prior to commencing the M.B.A.

Required Courses - Law (47 credits)

First Year – 33 credits

Expand allContract all

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 103	Indigenous Legal Traditions.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3
PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3

Second Year – 14 credits

Expand allContract all

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3
PRAC 200	Advocacy.	1
PROC 124	Judicial Institutions and Civil Procedure.	4

Complementary Courses – Law (12 credits)

Civil Law Immersion Courses (3 credits)

Expand allContract all

Course	Title	Credits
BUS2 561	Insurance.	3
LAWG 506	Advanced Civil Law Property.	3
PROC 200	Advanced Civil Law Obligations.	3
PRV1 549	Contrats nommés/Nominate Contracts.	3

PRV2 270	Law of Persons.	3	BUS2 506	Corporate Governance	3
PRV4 548	Administration Property of Another and Trusts.	3	CMPL 518	Policies, Politics and Legislative Process.	3
Common Law Immersion Courses (3 credits)					
Expand all	Contract all		CMPL 539	International Taxation.	3
Course	Title	Credits	CMPL 543	Law and Practice of International Trade.	3
PRV3 200	Advanced Common Law Obligations.	3	CMPL 574	Government Control of Business.	3
PRV3 534	Remedies.	3	CMPL 575	Discrimination and the Law.	3
PRV4 500	Restitution.	3	CMPL 577	Communications Law.	3
PRV4 549	Equity and Trusts.	3	CMPL 580	Environment and the Law.	3
PRV5 582	Advanced Torts.	3	LAWG 523	Tax Practice Seminar.	3
			LAWG 561	Privacy Law.	3
			LAWG 581	Health Care Delivery and the Law.	3
			LAWG 583	Public Health Law and Policy.	3
			LEEL 369	Labour Law.	3
			LEEL 570	Employment Law.	3
			LEEL 582	Law and Poverty.	3
			PRV4 545	Land Use Planning.	3
			PRV5 483	Consumer Law.	3
			PUB2 400	The Administrative Process.	3
			PUB2 401	Judicial Review of Administrative Action.	3
			PUB2 500	Law and Psychiatry.	3
			PUB2 507	Prison Law and Policy	3
			PUB2 515	Tax Policy.	3
			PUB2 551	Immigration and Refugee Law.	3

Social Diversity, Human Rights and Indigenous Law Courses (3 credits)

Expand all	Contract all		Course	Title	Credits
			CMPL 500	Indigenous Peoples and the State.	3
			CMPL 504	Feminist Legal Theory.	3
			CMPL 511	Social Diversity and Law.	3
			CMPL 516	International Development Law.	3
			CMPL 565	International Humanitarian Law.	3
			CMPL 571	International Law of Human Rights.	3
			CMPL 573	Civil Liberties.	3
			CMPL 575	Discrimination and the Law.	3
			IDFC 500	Indigenous Field Studies.	3
			LAWG 503	Inter-American Human Rights.	3
			LAWG 505	Critical Engagements with Human Rights.	3
			LAWG 507	Critical Race Theory Advanced Seminar.	3
			LAWG 508D1	Indigenous Constitutionalism.	3
			LAWG 508D2	Indigenous Constitutionalism.	3
			LAWG 509	Indigenous Law Revitalization.	3
			LAWG 562	Regulating Artificial Intelligence.	3
			LAWG 580	Women and Constitutions.	3
			LAWG 582	Disability Law and Policy.	3
			LEEL 369	Labour Law.	3
			LEEL 582	Law and Poverty.	3
			PUB2 105	Public International Law.	3
			PUB2 500	Law and Psychiatry.	3
			PUB2 502	International Criminal Law.	3
			PUB2 507	Prison Law and Policy	3
			PUB2 551	Immigration and Refugee Law.	3

Principles of Canadian Administrative Law (3 credits)

Expand all	Contract all		Course	Title	Credits
			BUS1 532	Bankruptcy and Insolvency.	3
			BUS2 504	Securities Regulation.	3

Elective Courses (34 credits)

Students must take 34 other elective courses, offered within the Faculty or approved as credit equivalencies in order to complete the 93-credit degree

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment or equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Law and Social Work (Non-Thesis) (Joint B.C.L./J.D & M.S.W.) (132 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 132

Program Description

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and J.D. degrees for a total of 132 credits.

Required Courses - Social Work (30 credits)

Expand allContract all

Course	Title	Credits
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 650	Field Work Practicum 1.	3
SWRK 651	Field Work Practicum 2.	3
SWRK 653	Research for Social Justice.	3
SWRK 660	Field Work Practicum 3.	6
SWRK 691	Social Work / Law Independent Study Project.	12

Complementary Courses - Social Work (15 credits)

15 credits of SWRK courses at the 500 or 600 level. Up to 6 graduate-level credits may be taken outside the School of Social Work with the approval of the Academic Adviser.

Required Courses - Law (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

Expand allContract all

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 103	Indigenous Legal Traditions.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3
PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3

Second Year

The following 13 credits of courses may be taken only in the second year:

Expand allContract all

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3
PROC 124	Judicial Institutions and Civil Procedure.	4

Any Year

The following 1 credit course may be taken in any year after completing the first year:

Expand allContract all

Course	Title	Credits
PRAC 200	Advocacy.	1

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

Expand allContract all

Course	Title	Credits
BUS2 561	Insurance.	3
LAWG 506	Advanced Civil Law Property.	3
PROC 200	Advanced Civil Law Obligations.	3
PRV1 549	Contrats nommés/Nominate Contracts.	3
PRV2 270	Law of Persons.	3
PRV4 548	Administration Property of Another and Trusts.	3

Common Law Immersion Courses

3 credits from the following list of common law courses:

Expand allContract all

Course	Title	Credits
PRV3 200	Advanced Common Law Obligations.	3
PRV3 534	Remedies.	3
PRV4 500	Restitution.	3
PRV4 549	Equity and Trusts.	3
PRV5 582	Advanced Torts.	3

Social Diversity, Human Rights and Indigenous Law Courses

3 credits from the following courses:

Expand allContract all

Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3
CMPL 504	Feminist Legal Theory.	3
CMPL 511	Social Diversity and Law.	3
CMPL 516	International Development Law.	3
CMPL 565	International Humanitarian Law.	3
CMPL 571	International Law of Human Rights.	3
CMPL 573	Civil Liberties.	3

CMPL 575	Discrimination and the Law.	3
IDFC 500	Indigenous Field Studies.	3
LAWG 503	Inter-American Human Rights.	3
LAWG 505	Critical Engagements with Human Rights.	3
LAWG 507	Critical Race Theory Advanced Seminar.	3
LEEL 369	Labour Law.	3
LEEL 582	Law and Poverty.	3
PUB2 105	Public International Law.	3
PUB2 500	Law and Psychiatry.	3
PUB2 502	International Criminal Law.	3
PUB2 507	Prison Law and Policy	3
PUB2 551	Immigration and Refugee Law.	3

Principles of Canadian Administrative Law

3 credits from the following courses:

Expand allContract all

Course	Title	Credits
BUS1 532	Bankruptcy and Insolvency.	3
BUS2 504	Securities Regulation.	3
BUS2 506	Corporate Governance	3
CMPL 518	Policies, Politics and Legislative Process.	3
CMPL 539	International Taxation.	3
CMPL 543	Law and Practice of International Trade.	3
CMPL 574	Government Control of Business.	3
CMPL 575	Discrimination and the Law.	3
CMPL 577	Communications Law.	3
CMPL 580	Environment and the Law.	3
LAWG 523	Tax Practice Seminar.	3
LAWG 561	Privacy Law.	3
LAWG 581	Health Care Delivery and the Law.	3
LAWG 583	Public Health Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 570	Employment Law.	3
LEEL 582	Law and Poverty.	3
PRV4 545	Land Use Planning.	3
PRV5 483	Consumer Law.	3
PUB2 400	The Administrative Process.	3
PUB2 401	Judicial Review of Administrative Action.	3
PUB2 500	Law and Psychiatry.	3
PUB2 507	Prison Law and Policy	3
PUB2 551	Immigration and Refugee Law.	3

Elective Courses (28 credits)

Students must take 28 other elective courses offered within the Faculty or approved as credit equivalencies in order to complete the 132-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
 2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
 3. writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.
- Papers written jointly do not satisfy this requirement.

Major Concentration Law with Major Concentration Commercial Negotiation and Dispute Resolution (B.C.L./J.D.) (123 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 123

Program Description

The B.C.L. and J.D.. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in Commercial Negotiation and Dispute Resolution is articulated around a synthetic skill set driven by the transversal theme "Commercial Negotiation and Dispute Resolution" and is inspired by an interdisciplinary approach.

Law and non-law courses are combined with the practical experience acquired during an internship. The required writing of an independent essay allows students to integrate the various academic and clinical strands of the major program, and, more broadly, of legal learning.

The Major concentration is a 36-credit program. Students are permitted to include within their 105 credits for the B.C.L. and J.D. 18 credits toward their Major concentration. The remaining 18 credits needed for the Major concentration are added on top of the 105 credits for the Law degrees for a total of 123 credits.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
WRIT 300D1	Major Internship.	3
WRIT 300D2	Major Internship.	3

Complementary Courses (30 credits)

Essay Course

3 credits from:

Expand allContract all

Course	Title	Credits	PUB2 503	Comparative Federalism.	3
WRIT 491	Term Essay 1A.	3	PUB2 517	Corporate Taxation.	3
WRIT 492	Term Essay 2.	3			
WRIT 493	Term Essay 3.	3			
WRIT 494	Term Essay 1B.	3			
WRIT 495	Term Essay 1C.	3			

The essay must be written on a subject related to Commercial Negotiation and Dispute Resolution. The essay is to be written in the fourth year of the program in order to allow the student to integrate the various academic and clinical strands of the program. The topic must be approved by the Associate Dean (Academic).

Law and Non-Law Courses (27 credits)

27 credits from the following lists of law and non-law courses of which at least 6 credits must be non-law courses.

Law Courses

15-21 credits of law courses selected from:

Expand allContract all

Course	Title	Credits			Credits
BUS1 532	Bankruptcy and Insolvency.	3	ECON 223	Political Economy of Trade Policy.	3
BUS2 503	Business Organizations.	3	ECON 305	Industrial Organization.	3
BUS2 504	Securities Regulation.	3	ECON 310	Introduction to Behavioural Economics.	3
BUS2 505	Corporate Finance.	3	ECON 546	Game Theory.	3
CMPL 515	International Carriage of Goods by Sea.	3			
CMPL 518	Policies, Politics and Legislative Process.	3			
CMPL 524	Entertainment Law.	3			
CMPL 533	Resolution of International Disputes.	3			
CMPL 543	Law and Practice of International Trade.	3			
CMPL 568	Extrajudicial Dispute Resolution.	3			
CMPL 574	Government Control of Business.	3			
LAWG 200	Commercial Law.	3			
LAWG 400	Secured Transactions.	4			
LAWG 511	Specialized Topics in Law 1.	1			
LAWG 512	Specialized Topics in Law 2.	1			
LAWG 513	Specialized Topics in Law 3.	2			
LAWG 514	Specialized Topics in Law 4.	2			
LAWG 515	Specialized Topics in Law 5.	3			
LAWG 516	Specialized Topics in Law 6.	3			
LAWG 517	Specialized Topics in Law 7.	3			
LAWG 518	Specialized Topics in Law 8.	3			
LAWG 521	Student-Initiated Seminar 1.	3			
LAWG 522	Student-Initiated Seminar 2.	3			
LEEL 369	Labour Law.	3			
PRV1 549	Contrats nommés/Nominate Contracts.	3			
PRV4 500	Restitution.	3			
PRV5 483	Consumer Law.	3			

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and J.D. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and J.D. Students who take 12 non-law credits as part of their Major concentration may not count additional non-law credits toward their B.C.L. and J.D.

Other non-law courses related to Commercial Negotiation and Dispute Resolution not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Economics

Expand allContract all

Course	Title	Credits
ECON 223	Political Economy of Trade Policy.	3
ECON 305	Industrial Organization.	3
ECON 310	Introduction to Behavioural Economics.	3
ECON 546	Game Theory.	3

Non-Law Courses - Management

Expand allContract all

Course	Title	Credits
BUSA 395	Managing in Europe.	3
BUSA 481	Managing in North America.	3
INDR 459	Comparative Employment Relations.	3
INDR 492	Globalization and Labour Policy.	3
INDR 496	Collective Bargaining.	3
MGCR 211	Introduction to Financial Accounting.	3
MGCR 293	Managerial Economics.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGPO 383	International Business Policy.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 445	Industry Analysis and Competitive Strategy.	3
MGPO 450	Ethics in Management.	3
MGPO 460	Managing Innovation.	3
MGPO 469	Managing Globalization.	3
MGPO 470	Strategy and Organization.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 380	Cross Cultural Management.	3
ORGB 420	Managing Organizational Teams.	3

Non-Law Courses - Political Science

Expand allContract all

Course	Title	Credits
POLI 243	International Politics of Economic Relations.	3

Major Concentration Law with Major International Human Rights and Development (B.C.L./J.D.) (123 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 123

Program Description

The B.C.L. and J.D. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in International Human Rights and Development is articulated around a synthetic skill-set driven by the transversal theme "International Human Rights and Development" and inspired by an interdisciplinary approach.

Law and non-law courses are combined with the practical experience acquired during an internship. The required writing of an independent essay allows students to integrate the various academic and clinical strands of the major program, and, more broadly, of legal learning.

The Major concentration is a 36-credit program. Students are permitted to include within their 105 credits for the B.C.L. and J.D. 18 credits toward their Major concentration. The remaining 18 credits needed for the Major concentration are added on top of the 105 credits for the Law degrees for a total of 123 credits.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
WRIT 300D1	Major Internship.	3
WRIT 300D2	Major Internship.	3

Complementary Courses (30 credits)

Essay Course (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
WRIT 491	Term Essay 1A.	3
WRIT 492	Term Essay 2.	3
WRIT 493	Term Essay 3.	3
WRIT 494	Term Essay 1B.	3
WRIT 495	Term Essay 1C.	3

The essay must be written on a subject related to International Human Rights and Development. The essay is to be written in the fourth year of the program, in order to allow the student to integrate the various academic and clinical strands of the program. The topic must be approved by the Associate Dean (Academic).

Law and Non-Law Courses (27 credits)

27 credits from the following lists of law and non-law courses of which at least 6 credits must be from non-law courses.

Law Courses

15-21 credits of law courses selected from:

Expand allContract all

Course	Title	Credits
CMPL 516	International Development Law.	3
CMPL 518	Policies, Politics and Legislative Process.	3
CMPL 533	Resolution of International Disputes.	3
CMPL 543	Law and Practice of International Trade.	3
CMPL 546	International Environmental Law and Politics.	3
CMPL 565	International Humanitarian Law.	3
CMPL 571	International Law of Human Rights.	3
LAWG 503	Inter-American Human Rights.	3
LAWG 505	Critical Engagements with Human Rights.	3
LAWG 511	Specialized Topics in Law 1.	1
LAWG 512	Specialized Topics in Law 2.	1
LAWG 513	Specialized Topics in Law 3.	2
LAWG 514	Specialized Topics in Law 4.	2
LAWG 515	Specialized Topics in Law 5.	3
LAWG 516	Specialized Topics in Law 6.	3
LAWG 517	Specialized Topics in Law 7.	3
LAWG 518	Specialized Topics in Law 8.	3
LAWG 521	Student-Initiated Seminar 1.	3
LAWG 522	Student-Initiated Seminar 2.	3
PUB2105	Public International Law.	3
PUB2502	International Criminal Law.	3
PUB2503	Comparative Federalism.	3
PUB2551	Immigration and Refugee Law.	3

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and J.D. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and J.D.. Students who take 12 non-law credits as part of their major concentration may not count additional non-law credits towards their B.C.L. and J.D.

Other non-law courses related to International Human Rights and Development not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Anthropology

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 418	Environment and Development.	3

Non-Law Courses - Economics

Expand allContract all

Course	Title	Credits
ECON 223	Political Economy of Trade Policy.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
ECON 316	The Underground Economy.	3
ECON 426	Labour Economics.	3

Non-Law Courses - Geography

Expand allContract all

Course	Title	Credits
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 408	Geography of Development.	3

Non-Law Courses - International Development

Expand allContract all

Course	Title	Credits
INTD 200	Introduction to International Development.	3

Non-Law Courses - Management

Expand allContract all

Course	Title	Credits
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
ORGB 380	Cross Cultural Management.	3

Non-Law Courses - Political Science

Expand allContract all

Course	Title	Credits
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 243	International Politics of Economic Relations.	3
POLI 324	Comparative Politics of Africa.	3
POLI 340	Comparative Politics of the Middle East.	3
POLI 345	International Organizations.	3
POLI 354	Approaches to International Political Economy.	3
POLI 362	Political Theory and International Relations.	3
POLI 522	Seminar: Comparative Politics 1.	3

Non-Law Courses - Sociology

Expand allContract all

Course	Title	Credits
SOCI 254	Development and Underdevelopment.	3
SOCI 370	Sociology: Gender and Development.	3
SOCI 484	Emerging Democratic States.	3
SOCI 519	Gender and Globalization.	3
SOCI 550	Developing Societies.	3

Accounting Concentration (B.Com.) (15 credits)**Offered by:** Management (Desautels Faculty of Management)**Degree:** Bachelor of Commerce**Program credit weight:** 15**Program Description**

The Accounting concentration is designed to meet the needs of Management students who want to have a good basic understanding of accounting, but do not intend to become professional accountants or accounting specialists. It is primarily oriented toward users of financial information and emphasizes breadth of knowledge in a coherent selection of courses.

This concentration complements or forms part of the B.Com., General Management program. The individual courses in the concentration also act as service courses for other areas in the Faculty for their majors or concentrations.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ACCT 351	Intermediate Financial Accounting 1.	3
ACCT 361	Management Accounting.	3

Complementary Courses (9 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
ACCT 352	Intermediate Financial Accounting 2.	3
ACCT 354	Financial Statement Analysis.	3
ACCT 362	Cost Accounting.	3
ACCT 385	Principles of Taxation.	3
ACCT 401	Sustainability and Environmental Accounting.	3
ACCT 434	Topics in Accounting 1.	3
ACCT 451	Data Analytics in Capital Market.	3
ACCT 452	Financial Reporting Valuation.	3
ACCT 453	Advanced Financial Accounting.	3
ACCT 463	Management Control.	3
ACCT 475	Principles of Auditing.	3
ACCT 486	Business Taxation 2.	3

Business Analytics Concentration (B.Com.) (15 credits)**Offered by:** Management (Desautels Faculty of Management)**Degree:** Bachelor of Commerce**Program credit weight:** 15

Program Description

Students completing this concentration will have training in a diverse set of methods in analytics and tools to conduct analyses as applied in a variety of managerial disciplines. Today, business professionals, managers, and entrepreneurs need to be able to leverage the power of data that is collected. The Business Analytics concentration provides students with essential skills and knowledge needed to navigate in the world of data. This Concentration offers courses with a strong practical and applied orientation from a variety of managerial disciplines.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
INSY 336	Data Handling and Coding for Analytics.	3

Complementary Courses (12 credits)

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
MGSC 401	Statistical Foundations of Data Analytics.	3
MGSC 416	Data-Driven Models for Operations Analytics.	3

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
INSY 446	Data Mining for Business Analytics.	3
MGSC 404	Foundations of Decision Analytics.	3

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 451	Data Analytics in Capital Market.	3
BUSA 471	Artificial Intelligence Ethics for Business.	3
FINE 460	Financial Analytics.	3
INSY 442	Data Analysis and Visualization.	3
INSY 446	Data Mining for Business Analytics.	3
INSY 448	Text and Social Media Analytics.	3
INSY 463	Deep Learning for Business Analytics.	3
MGSC 483	Analytics-Based Community Project.	3
MRKT 440	Marketing Analytics.	3
MRKT 442	Customer Analytics.	3
ORGB 330	People Analytics.	3

Or any related undergraduate topics course (with approvals from Business Analytics and the BCom Office).

Entrepreneurship Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

This concentration is designed to provide students with an understanding of the key concepts and processes involved in starting and managing new ventures. It combines rigor with relevance, as all students will complete a major field project, thus providing an opportunity to apply the concepts acquired in the classroom. The concentration is multidisciplinary and integrative, as it includes courses from across areas in the Faculty. Upon completing the concentration, students will understand how to conceptualize, develop, and manage successful new ventures. The concentration is appropriate for students interested in a wide variety of new ventures, from for-profit private companies to social enterprises and cooperatives.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MGPO 362	Fundamentals of Entrepreneurship.	3
MGPO 364	Entrepreneurship in Practice.	3

Complementary Courses (9 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
ACCT 361	Management Accounting.	3
BUSA 300	Case Analysis and Presentation.	3
BUSA 364	Business Law 1.	3
BUSA 451D1	Creating Impact Through Research.	3
BUSA 451D2	Creating Impact Through Research.	3
BUSA 465	Technological Entrepreneurship.	3
FINE 447	Venture Capital and Entrepreneurial Finance.	3
FINE 477	Fintech for Business and Finance.	3
INSY 331	Managing and Organizing Digital Technology.	3
INSY 334	Design Thinking for User Experience.	3
INSY 341	Developing Business Applications.	3
INSY 432	Digital Business Models.	3
INSY 440	E-Business.	3
INSY 455	Technology and Innovation for Sustainability.	3
MGPO 365	Business-Government Relations.	3
MGPO 432	Topics in Entrepreneurship.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3

MGPO 445	Industry Analysis and Competitive Strategy.	3	ORGB 325	Negotiations and Conflict Resolution.	3
MGPO 460	Managing Innovation.	3	ORGB 330	People Analytics.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3	ORGB 380	Cross Cultural Management.	3
MRKT 451	Marketing Research.	3	ORGB 423	Human Resources Management.	3
MRKT 455	Sales Management.	3	PHIL 230	Introduction to Moral Philosophy 1.	3
MRKT 459	Retail Management.	3	PHIL 237	Contemporary Moral Issues.	3
ORGB 321	Leadership.	3			
ORGB 325	Negotiations and Conflict Resolution.	3			
RETL 402	Innovations in Retailing.	3			
RETL 410	Sustainable Retail and Entrepreneurship.	3			

Ethics Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The B.Com; Concentration in Ethics provides the foundations to examine and respond to ethics-related questions and problems that exist in management. Topics include but are not limited to: corporate social responsibility, transparency, compliance, prioritizing product safety, responsible data use, sustainable growth aligned with the UN Sustainable Development Goals, fair labour practices.

Required Courses (3 credits)

Course	Title	Credits
MGPO 450	Ethics in Management.	3

Complementary Courses (12 credits)

12 credits from the following list:

Course	Title	Credits
ACCT 401	Sustainability and Environmental Accounting.	3
ACCT 463	Management Control.	3
ECSE 557	Introduction to Ethics of Intelligent Systems.	3
FINE 465	Sustainable Finance .	3
FINE 490	Mergers and Corporate Reorganizations.	3
INSY 331	Managing and Organizing Digital Technology.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 475	Strategies for Developing Countries.	3
MRKT 351	Marketing and Society.	3
MSUS 402	Systems Thinking and Sustainability.	3
ORGB 321	Leadership.	3

Finance Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The Finance concentration has been designed to provide understanding of key concepts in finance theory, financial institutions, investment analysis, risk management, and applied techniques. Graduates find a strong demand among financial organizations, governments, and non-financial firms where they pursue careers that lead to positions such as Managing Partner, Treasurer, and V.P. Finance.

Required Courses (9 credits)

Course	Title	Credits
FINE 342	Corporate Finance.	3
FINE 441	Investment Management.	3
FINE 443	Applied Corporate Finance.	3

Complementary Courses (6 credits)

Selected from any undergraduate FINE course.

Information Technology Management Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The Information Technology Management concentration focuses on how organizations can leverage the power of IT. Navigating the digital economy, foundations in analyzing, selecting and applying technology solutions for business problems, as well as how to handle and analyze data.

Required Course (3 credits)

Course	Title	Credits
INSY 333	Systems Analysis and Modeling.	3

Complementary Courses (12 credits)

6-12 credits selected from:

Expand allContract all

Course	Title	Credits
INSY 331	Managing and Organizing Digital Technology.	3
INSY 334	Design Thinking for User Experience.	3
INSY 339	Digital Consulting.	3
INSY 341	Developing Business Applications.	3
INSY 431	IT Implementation Management.	3
INSY 432	Digital Business Models.	3
INSY 434	Topics in Information Systems 1.	3
INSY 437	Managing Data and Databases.	3
INSY 440	E-Business.	3
INSY 442	Data Analysis and Visualization.	3
INSY 450	Information Systems Project Management.	3
INSY 455	Technology and Innovation for Sustainability.	3

0-6 credits selected from:

Expand allContract all

Course	Title	Credits
INSY 336	Data Handling and Coding for Analytics.	3
INSY 446	Data Mining for Business Analytics.	3
INSY 448	Text and Social Media Analytics.	3
INSY 463	Deep Learning for Business Analytics.	3

International Business Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The objective of the International Business Concentration is to help the student develop conceptual and analytical skills needed to formulate feasible and effective management policies in an international setting. With economic and business activity becoming increasingly internationalized, the program provides useful preparation for careers in a variety of internationally-oriented organizations, including local business firms involved in international trade, licensing, or financial arrangements; headquarters or subsidiaries of multinational companies; banks and other international financial institutions; and various governmental organizations.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
BUSA 356	Management in Global Context.	3

Complementary Courses (12 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
BUSA 391	International Business Law.	3
BUSA 394	Managing in Asia.	3
BUSA 395	Managing in Europe.	3
BUSA 396	Managing Internationally in Quebec.	3
BUSA 401	Independent Studies in International Business.	3
BUSA 430	Business Climate in Developing Countries.	3
BUSA 433	Topics in International Business 1.	3
BUSA 435	Topics in International Business 2	3
BUSA 481	Managing in North America.	3
FINE 482	International Finance 1.	3
FINE 492	International Corporate Finance.	3
INDR 459	Comparative Employment Relations.	3
MGPO 383	International Business Policy.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MRKT 451	Marketing Research.	3
MRKT 483	International Marketing Management.	3
ORGB 380	Cross Cultural Management.	3

Labour-Management Relations and Human Resources Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The objective of this concentration is to provide a general understanding of employer-employee relations and human resources, both at the micro-level and in relation to the socio-economic context in which they occur. Students interested in more intensive study of this area are urged to consider the Major program in Labour-Management Relations and Human Resources.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
INDR 294	Introduction to Labour-Management Relations.	3
INDR 496	Collective Bargaining.	3
ORGB 423	Human Resources Management.	3

Complementary Courses (6 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
INDR 459	Comparative Employment Relations.	3
INDR 492	Globalization and Labour Policy.	3
INDR 494	Labour Law.	3
ORGB 321	Leadership.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 330	People Analytics.	3
ORGB 401	Leadership Practicum in Social Sector.	3
ORGB 421	Managing Organizational Change.	3
ORGB 440	Career Theory and Development.	3
ORGB 509	Organizational Research Methods.	3
ORGB 525	Compensation Management.	3

Managing for Sustainability Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The B.Com.; Major in General Management; Managing for Sustainability Concentration focuses on conceptual and analytical skills needed to formulate and implement organizational policies that contribute to ecologically sustainable and socially responsible economic development.

The main themes of courses in the Concentration include: organizational implications of the interlinked economic, social and ecological challenges of sustainability; the integration of sustainability into traditional business functions; and leadership, stakeholder management and managing change required to achieve sustainability.

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
MGPO 440	Strategies for Sustainability.	3
MSUS 402	Systems Thinking and Sustainability.	3

Complementary Courses (9 credits)

3-9 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 401	Sustainability and Environmental Accounting.	3
FINE 465	Sustainable Finance .	3
INSY 455	Technology and Innovation for Sustainability.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGSC 488	Sustainability and Operations.	3
MRKT 351	Marketing and Society.	3

0-6 credits from the following:

Course	Title	Credits
BUSA 451D1	Creating Impact Through Research.	3
BUSA 451D2	Creating Impact Through Research.	3
INDR 294	Introduction to Labour-Management Relations.	3
INDR 492	Globalization and Labour Policy.	3
MGPO 365	Business-Government Relations.	3
MGPO 430	Practicum in Not for Profit Consulting.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 450	Ethics in Management.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MGSC 483	Analytics-Based Community Project.	3
MSUS 401	Sustainability Consulting.	3
MSUS 434	Topics in Sustainability 1	3
ORGB 321	Leadership.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 421	Managing Organizational Change.	3
RETL 410	Sustainable Retail and Entrepreneurship.	3

Or any related undergraduate topics course (with approvals from the Program Mentor and the BCom Office.)

Marketing Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The Marketing concentration prepares the student for a wide variety of career opportunities. Marketing graduates historically have found employment in the fields of product management, advertising, sales management, marketing management, pricing, marketing research, distribution, and retailing. The Marketing concentration provides a balance between courses focusing on fundamental, theoretical, and

"need to know" material, and courses with a strong practical and applied orientation.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MRKT 354	Marketing Strategy.	3
MRKT 451	Marketing Research.	3
MRKT 452	Consumer Behaviour.	3

Complementary Course (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MRKT 351	Marketing and Society.	3
MRKT 355	Services Marketing.	3
MRKT 357	Marketing Planning 1.	3
MRKT 365	New Products.	3
MRKT 434	Topics in Marketing 1.	3
MRKT 438	Brand Management.	3
MRKT 440	Marketing Analytics.	3
MRKT 453	Advertising and Media.	3
MRKT 455	Sales Management.	3
MRKT 459	Retail Management.	3
MRKT 483	International Marketing Management.	3

Operations Management Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

Operations Management is concerned with the design, planning, control, coordination, and improvement of business processes, systems, and resources integral to the creation of the firm's products and services. Emphasizing quantitative analysis and cross-functional thinking, the Operations Management concentration provides training on traditional as well as emerging operations strategies, concepts, models, and techniques that are essential to any firm in today's competitive marketplace. Operations management graduates find career opportunities in a variety of industries and fields including consulting, manufacturing, distribution, retail, transportation, health care, and public sector, among others.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MGSC 373	Operations Research 1.	3
MGSC 431	Operations and Supply Chain Analysis.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MGSC 372	Advanced Business Statistics.	3
MGSC 403	Introduction to Logistics Management.	3
MGSC 404	Foundations of Decision Analytics.	3
MGSC 416	Data-Driven Models for Operations Analytics.	3
MGSC 417	Project Operations and Risk Management.	3
MGSC 434	Topics in Operations Management 1	3
MGSC 488	Sustainability and Operations.	3

or approved courses in other areas or faculties.

Organizational Behaviour Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The Organizational Behaviour concentration provides an opportunity for students to increase their awareness of behavioural issues encountered in job and organizational settings, and to prepare themselves for graduate study in the behavioural sciences or for careers in general management or human resource management.

Complementary Courses (15 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
ORGB 321	Leadership.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 330	People Analytics.	3
ORGB 380	Cross Cultural Management.	3
ORGB 420	Managing Organizational Teams.	3
ORGB 421	Managing Organizational Change.	3
ORGB 423	Human Resources Management.	3
ORGB 434	Topics in Organizational Behaviour 1.	3
ORGB 440	Career Theory and Development.	3

ORGB 509	Organizational Research Methods.	3
ORGB 525	Compensation Management.	3

Retail Management Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

The Retail Management concentration will combine business fundamentals together with real-time, experiential learning opportunities recognizing the growing complexity of the retail sector. Through interaction with the state-of-the-art Retail Innovation Lab, students will have the opportunity to learn firsthand about managing all levels of a retail operation using the latest technologies. The practical experience will link directly to the study of consumer behaviour, experiential marketing, omni-channel retailing, pricing analytics, efficacy of different payment systems, and global value chain management.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MRKT 459	Retail Management.	3
RETL 402	Innovations in Retailing.	3
RETL 407	Retail Management Project.	3

Complementary Courses (6 credits)

Selected from the following:

Expand allContract all

Course	Title	Credits
INDR 294	Introduction to Labour-Management Relations.	3
INSY 440	E-Business.	3
INSY 442	Data Analysis and Visualization.	3
MGSC 403	Introduction to Logistics Management.	3
MGSC 431	Operations and Supply Chain Analysis.	3
MRKT 355	Services Marketing.	3
MRKT 451	Marketing Research.	3
MRKT 452	Consumer Behaviour.	3
MRKT 455	Sales Management.	3
RETL 408	Omni-Channel Retailing.	3
RETL 409	Digitization of Retailing.	3
RETL 410	Sustainable Retail and Entrepreneurship.	3
RETL 434	Topics in Retail Management 1	3

Strategic Management - Global Strategy Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Business & Enterprise.

The Concentration in Strategic Management - Global Strategy Option provides students with the skills necessary to understand contemporary businesses in a global context, and to explore the implications of business decisions for society and the environment. Since globalization affects organizations of all types, this concentration conveys the tools necessary to understand industry structures and competitive dynamics in a global context. It provides opportunities to analyze organizational capabilities and how to enhance them, and enables students to assess the requirements of doing business in different economic and political systems. Global Strategy adds an overarching, holistic and integrated perspective to the Faculty's other concentrations and majors. Anticipated career trajectories include positions in consulting; strategic planning and analysis in multinationals and government agencies; and business development in new start-ups and small enterprises.

Complementary Courses (15 credits)

9-15 credits from:

Expand allContract all

Course	Title	Credits
MGPO 383	International Business Policy.	3
MGPO 445	Industry Analysis and Competitive Strategy.	3
MGPO 460	Managing Innovation.	3
MGPO 469	Managing Globalization.	3
MGPO 470	Strategy and Organization.	3

0-6 credits from:

Expand allContract all

Course	Title	Credits
BUSA 300	Case Analysis and Presentation.	3
BUSA 391	International Business Law.	3
ECON 305	Industrial Organization.	3
MGPO 362	Fundamentals of Entrepreneurship.	3
MGPO 434	Topics in Policy 1.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 450	Ethics in Management.	3

MGPO 475	Strategies for Developing Countries.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3
ORGB 380	Cross Cultural Management.	3

Strategic Management - Social Business & Enterprise Concentration (B.Com.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 15

Program Description

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Business & Enterprise.

The concentration in Strategic Management - Social Business & Enterprise Option is intended for students interested in harnessing the not-for-profit, civil, and for-profit sectors to tackle social issues. Students will be challenged to reconceptualise strategy formation and implementation with an emphasis on economic development, the environment, corporate social responsibility, and social impact. The concentration will impart a comprehensive set of management skills, encompassing cross-sectoral collaboration and social entrepreneurship. It encourages students to complement their courses in Management with an array of course offerings from outside the Faculty. The concentration complements concentrations and majors in other Management areas, adding a holistic and integrated perspective. Anticipated career trajectories include positions in NGOs; international organizations such as those affiliated with the UN; social enterprise; government agencies; as well as in the fields of consulting and corporate social responsibility.

Complementary Courses (15 credits)

9-15 credits from:

Expand allContract all		Credits
Course	Title	
MGPO 365	Business-Government Relations.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 450	Ethics in Management.	3
MGPO 475	Strategies for Developing Countries.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3

0-6 credits from:

(Note: no more than 3 credits may be taken at the 200 level)

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 212	Anthropology of Development.	3
BUSA 300	Case Analysis and Presentation.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
INTD 200	Introduction to International Development.	3
MGPO 430	Practicum in Not for Profit Consulting.	3
MGPO 433	Topics in Social Business and Enterprise.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 460	Managing Innovation.	3

Entrepreneurship (for Non-Management Students) (Minor) (18 credits)

Offered by: Management (Desautels Faculty of Management)

Program credit weight: 18

Program Description

The B.Com.; Minor in Entrepreneurship (for Non-Management Students) focuses on an entrepreneurial mindset to see opportunity in the world and provides training in an entrepreneurial method to bring opportunities for change to life. With three different streams, this program takes a democratized approach to entrepreneurship, with exposure to the diverse manifestations of entrepreneurship in the world including but not limited to new ventures, social enterprise, start-ups, cooperatives, corporate venturing, side hustles, and passion projects. The minor emphasizes self-directed learning and experiential education.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGPO 362	Fundamentals of Entrepreneurship.	3
MGPO 364	Entrepreneurship in Practice.	3

Complementary Courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3

MGCR 352	Principles of Marketing.	3	FAES 300	Internship 2. ¹	3
MGCR 372	Operations Management.	3	FAES 310	Agribusiness Entrepreneurship.	3
MGCR 382	International Business.	3			
MGCR 423	Strategic Management.	3			
MGCR 460	Social Context of Business.	3			

6 credits from one of the following streams:

Social Entrepreneurship Stream

3 credits from the following:

Expand allContract all

Course	Title	Credits
MGPO 438	Social Entrepreneurship and Innovation.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMS 355	Media Governance.	3
COMS 492	Power, Difference and Justice.	3
ECON 310	Introduction to Behavioural Economics.	3
ECON 447	Economics of Information and Uncertainty.	3
HIST 312	History of Consumption in Canada.	3
LLCU 212	Understanding Digital and Social Media.	3
PHIL 237	Contemporary Moral Issues.	3
POLI 318	Comparative Local Government.	3
POLI 473	Democracy and the Market.	3
SOCI 307	Globalization.	3
SOCI 386	Contemporary Social Movements.	3

Kinesiology and Physical Education Stream

6 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
EDKP 302	Kinesiology Clinic Internship 1.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MIMM 387	The Business of Science.	3

Agribusiness Stream

6 credits from the following:

Expand allContract all

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 332	Farm Management and Finance.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 450	Agribusiness Management.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
AGRI 493	International Project Management.	3

Management (for Non-Management Students) (Minor) (18 credits)

Offered by: Management (Desautels Faculty of Management)
Program credit weight: 18

Program Description

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

9 credits selected from:

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 271	Business Statistics. ¹	3
MGCR 293	Managerial Economics. ²	3
MGCR 331	Information Technology Management . ³	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing. ³	3
MGCR 372	Operations Management. ³	3
MGCR 382	International Business.	3

¹ 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

² Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

³ Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Advisor.

9 credits selected from any Management courses not already chosen from the first list or any 300- or 400-level Management courses for which prerequisites have been met.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

Accounting Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The B.Com.; Major in Accounting focuses on preparing, interpreting, and utilizing the financial and managerial information of an organization. The program includes financial and managerial accounting, auditing, and taxation.

Required Courses (60 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
ACCT 351	Intermediate Financial Accounting 1.	3
ACCT 352	Intermediate Financial Accounting 2.	3
ACCT 361	Management Accounting.	3
ACCT 362	Cost Accounting.	3
ACCT 385	Principles of Taxation.	3
ACCT 455	Development of Accounting Thought.	3

Complementary Courses (12 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 354	Financial Statement Analysis.	3
ACCT 401	Sustainability and Environmental Accounting.	3
ACCT 434	Topics in Accounting 1.	3
ACCT 451	Data Analytics in Capital Market.	3
ACCT 452	Financial Reporting Valuation.	3
ACCT 453	Advanced Financial Accounting.	3
ACCT 463	Management Control.	3
ACCT 475	Principles of Auditing.	3
ACCT 486	Business Taxation 2.	3

Business Analytics Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The Major in Business Analytics offers an interdisciplinary approach to study the evolving field of management analytics with a strong emphasis on experiential learning. The major is designed to address the growing needs of organizations for business analytics, data science, and artificial intelligence. The emphasis of the program will be on managerial issues and use of state-of-the-art data analytics tools to optimize organizational decisions in a variety of managerial settings.

Required Courses (54 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3

MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
INSY 336	Data Handling and Coding for Analytics.	3
INSY 446	Data Mining for Business Analytics.	3
MGSC 404	Foundations of Decision Analytics.	3

3 credits of experiential learning from the following:

Course	Title	Credits
MGSC 483	Analytics-Based Community Project.	3
RETL 407	Retail Management Project.	3

Complementary Courses (18 credits)

3-6 credits from the following:

Course	Title	Credits
MGSC 401	Statistical Foundations of Data Analytics.	3
MGSC 416	Data-Driven Models for Operations Analytics.	3

6-9 credits of technical component from the following:

Course	Title	Credits
INSY 437	Managing Data and Databases.	3
INSY 442	Data Analysis and Visualization.	3
INSY 463	Deep Learning for Business Analytics.	3

3-9 credits from the following:

Course	Title	Credits
ACCT 451	Data Analytics in Capital Market.	3
BUSA 471	Artificial Intelligence Ethics for Business.	3
FINE 460	Financial Analytics.	3
INSY 448	Text and Social Media Analytics.	3
MRKT 440	Marketing Analytics.	3
MRKT 442	Customer Analytics.	3
ORGB 330	People Analytics.	3

Or any related undergraduate topics course (with approvals from the Business Analytics area and the B.Com. Office).

Economics for Management Students Major (B.Com.) (69 credits)**Offered by:** Management (Desautels Faculty of Management)

3 **Degree:** Bachelor of Commerce
Program credit weight: 69

Program Description

The B.Com.; Major in Economics for Management Students is a planned sequence of courses designed to permit a degree of specialization in economics, including microeconomics (focusing on the study of the behaviour of individual economic agents and how the interaction of individuals results in market outcomes) and macroeconomics (focusing on economy-wide issues such as unemployment rates, money supply and inflation, as well as public policies to influence such macroeconomic aggregates). Topics include: econometrics, economic history, economic development, environmental economics, industrial organization, international trade and finance, labour economics, money and banking, and public finance.

Required Courses (51 credits)**Management Core**

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Course	Title	Credits
ECON 230D1	Microeconomic Theory.	3
ECON 230D2	Microeconomic Theory.	3
ECON 332	Macroeconomic Theory: Majors 1.	3
ECON 333	Macroeconomic Theory - Majors 2.	3
MGCR 271	Business Statistics.	3
MGSC 372	Advanced Business Statistics.	3

Complementary Courses (18 credits)

Selected from other 200-, 300-, and 400-level courses in Economics (ECON), excluding courses with numbers below 210. At least 6 of these 18 credits should be taken from courses with 400-level numbers. No more than 6 of the 18 credits may be taken at the 200 level.

Finance Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The 30-credit Finance Major has been designed to meet the increasing demand for expertise in this rapidly growing functional area of business. This major is designed to provide in-depth knowledge of finance theory, financial institutions, investment analysis, risk management, and applied techniques. Employment for graduates is most often obtained in investment and commercial banking, manufacturing and service firms, non-profit organizations and governments, and non-financial firms.

All BCom students take a Core curriculum in addition to this Major.

Required Courses (60 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
FINE 342	Corporate Finance.	3
FINE 441	Investment Management.	3
FINE 443	Applied Corporate Finance.	3
FINE 448	Financial Derivatives.	3
FINE 482	International Finance 1.	3
MGSC 372	Advanced Business Statistics.	3

Complementary Courses (12 credits)

9-12 credits from any undergraduate FINE courses.

0-3 credits from:

Expand allContract all

Course	Title	Credits
ACCT 351	Intermediate Financial Accounting 1.	3
ACCT 352	Intermediate Financial Accounting 2.	3
ACCT 354	Financial Statement Analysis.	3
ACCT 385	Principles of Taxation.	3
ACCT 452	Financial Reporting Valuation.	3

Information Technology Management Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

This BCom.; Major Information Technology Management focuses on a blend of theoretical concepts, hands-on tools, and actual case studies to identify business problems and opportunities, analyze business processes, and develop and implement information systems to support them. The Program covers a variety of topics including strategic planning and investment in information technologies, analysis, design, and deployment of information systems, understanding the opportunities and challenges of web-based businesses, and managing resistance to IT-initiated changes in organization.

Required Courses (63 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3

MGCR 423	Strategic Management.	3	1. Comparative Global Studies; 2. Global Politics and Economy; 3. Global Well-Being and Development.
MGCR 460	Social Context of Business.	3	

Major

Expand allContract all

Course	Title	Credits
INSY 331	Managing and Organizing Digital Technology.	3
INSY 333	Systems Analysis and Modeling.	3
INSY 334	Design Thinking for User Experience.	3
INSY 341	Developing Business Applications.	3
INSY 431	IT Implementation Management.	3
INSY 437	Managing Data and Databases.	3
INSY 450	Information Systems Project Management.	3

Complementary Courses (9 credits)

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
INSY 339	Digital Consulting.	3
INSY 432	Digital Business Models.	3
INSY 434	Topics in Information Systems 1.	3
INSY 440	E-Business.	3
INSY 442	Data Analysis and Visualization.	3
INSY 455	Technology and Innovation for Sustainability.	3

0-6 credits selected from:

Expand allContract all

Course	Title	Credits
INSY 336	Data Handling and Coding for Analytics.	3
INSY 446	Data Mining for Business Analytics.	3
INSY 448	Text and Social Media Analytics.	3
INSY 463	Deep Learning for Business Analytics.	3

International Management Major (B.Com.) (90 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 90

Program Description

(87-90 credits)

The B.Com.; Major in International Management focuses on combining business studies with regional or thematic global studies and foreign language proficiency, including the impact of managing in one of three themes:

This Major is interdisciplinary and integrative and includes an international business component, an interdisciplinary area of study that includes a Minor Concentration/Minor outside the Management Faculty, language courses, and an experiential learning experience in the form of either exchange, internship or research.

Required Courses (45 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
BUSA 356	Management in Global Context.	3

Complementary Courses (39-45 credits)

International Business Component

12 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 391	International Business Law.	3
BUSA 394	Managing in Asia.	3
BUSA 395	Managing in Europe.	3
BUSA 396	Managing Internationally in Quebec.	3
BUSA 401	Independent Studies in International Business.	3
BUSA 433	Topics in International Business 1.	3
BUSA 481	Managing in North America.	3
FINE 482	International Finance 1.	3
FINE 492	International Corporate Finance.	3

INDR 459	Comparative Employment Relations.	3
MGPO 383	International Business Policy.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MRKT 451	Marketing Research.	3
MRKT 483	International Marketing Management.	3
ORGB 380	Cross Cultural Management.	3

- ¹ Only one Independent Studies course may be taken in the B.Com. degree.
- B.A. Minor Concentration in Economics ¹ (18 credits)
 - B.A. Minor Concentration in History (18 credits)
 - B.A. Minor Concentration in Jewish Studies (18 credits)
 - B.A. Minor Concentration in Quebec Studies & Community-Engaged Learning
 - La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire (18 credits)
 - B.A. Minor Concentration in Russian Culture (18 credits)
 - B.A. Minor Concentration in South Asian Studies (18 credits)
 - B.A. Minor Concentration in World Islamic & Middle East Studies (18 credits)

¹ Students should choose Economics (ECON) courses with a regional focus. Course numbers above ECON 209 Macroeconomic Analysis and Applications. (excluding ECON 295 Macroeconomic Policy.) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 Managerial Economics. and ECON 295 Macroeconomic Policy. that are prerequisites for 300-level courses in economics do not count as part of this Minor concentration. ECON 227 Economic Statistics. will not count if it is taken to meet other B.Com. requirements.

Experiential Learning Component

0-3 credits from the following; students must choose one of these experiential learning courses or the exchange - as there is no McGill course associated with the exchange component, credits for course(s) completed abroad will count towards courses in the B.Com. degree as determined by the program/exchange adviser.

Internship

Expand allContract all

Course	Title	Credits
BUSA 497	Internship in International Business.	3

Research

Expand allContract all

Course	Title	Credits
BUSA 401	Independent Studies in International Business.	3

¹ Only one Independent Studies course may be taken in the B.Com. degree.

International Exchange

Students who participate in an exchange or Study Away will receive credits for courses successfully approved and completed while abroad. This will fulfill the experiential learning component, no additional credits will be granted for this option.

NOTE: There are CGPA requirements for experiential learning experiences [international exchange, internship, research]. Students must consult with a BCom Academic Advisor if they do not meet the minimum CGPA requirement.

Area of Study Component

18 credits from one of the following three Streams:

Stream 1: Comparative Global Studies

Students can choose to study a region including Africa, East Asia, Middle East, South Asia, Europe, or the Americas, or several regions from a comparative global perspective in Religious Studies, Political Science, History, or Economics. This option focuses on aspects of global society and culture from a social science perspective. This theme is suitable for students who would like to work in a specific country or region or for students who want to work for a multinational company or government organization with global interests.

- B.A. Minor Concentration in African Studies (18 credits)
- B.A. Minor Concentration in Canadian Studies (18 credits)
- B.A. Minor Concentration in East Asian Cultural Studies (18 credits)

Stream 2: Global Politics and Economy

This theme focuses on aspects of public policy from the perspective of global transactions and finance. Students may select a minor concentration in the area of international relations and investigate policy on a global scale and its operations in the context of policy, war and peace, the economy, security, trade, human rights, and international organizations. Graduates with this option would be poised to apply their educational background to careers with world government, trade, or economic organizations, NGOs, national governments, or businesses with global interests. The choices of programs include Economics, Geography, Political Science, or a selected group of courses.

- B.A. Minor Concentration in Economics (18 credits)
- B.A. Minor Concentration in Political Science (18 credits)

OR

Global Governance, Conflict and Human Rights

18 credits of the following courses with at least 6 credits at the 300 level or above:

Expand allContract all

Course	Title	Credits
ANTH 212	Anthropology of Development.	3
ANTH 222	Legal Anthropology.	3
CANS 307	Canada in the World.	3
COMS 230	Communication and Democracy.	3
COMS 320	Media and Empire.	3
HIST 221	United States since 1865.	3
HIST 302	International Relations History 1: 1750-1950.	3
HIST 304	International Relations History 2: Cold War.	3
HIST 371	American Civil Rights 1877-1940.	3
HIST 387	The First World War.	3
HIST 388	The Second World War.	3

JWST 240	The Holocaust.	3	9 credits of language in First- or Second-Level EAST (Asian Languages and Literature)
PHIL 237	Contemporary Moral Issues.	3	
PHIL 334	Ethical Theory.	3	or
POLI 212	Introduction to Comparative Politics – Europe/ North America.	3	9 credits from ISLA 221D1 Introductory Arabic./ISLA 221D2 Introductory Arabic.
POLI 244	International Politics: State Behaviour.	3	
POLI 322	Political Change in South Asia.	3	
POLI 345	International Organizations.	3	
POLI 360	Security: War and Peace.	3	
POLI 450	Peacebuilding.	3	
RELG 370	Religion and Human Rights.	3	
SOCI 210	Sociological Perspectives.	3	
SOCI 230	Sociology of Ethnic Relations.	3	
SOCI 307	Globalization.	3	
SOCI 386	Contemporary Social Movements.	3	

Steam 3: Well-Being and Development

Broad-based, interdisciplinary topics will allow students to study current issues of social importance ranging from: poverty and inequality, health promotion and the environment, sustainability, and natural resource management. Students will be prepared to apply business practices to the protection of the vulnerable and the planet. Students will be poised to work for multinationals, governments, or non-governmental organizations.

- B.A. Minor Concentration in Anthropology (18 credits)
- B.A. Minor Concentration in Economics (18 credits)
- B.A. Minor Concentration in Geography (18 credits)
- B.A. Minor Concentration in International Development Studies (18 credits)
- B.A. Minor Concentration in Psychology (18 credits)
- B.A. Minor Concentration in Social Studies of Medicine (18 credits)
- B.A. Minor Concentration in Sociology (18 credits)
- B.A. Minor Concentration in Environment (18 credits) [Bieler School of Environment]
- B.Sc. Minor in Environment (18 credits) [Bieler School of Environment]
- B.Sc. Field Study Minor (18 credits)

¹ Students should choose Economics (ECON) courses related to the environment, development, and health. Course numbers above ECON 209 Macroeconomic Analysis and Applications. (excluding ECON 295 Macroeconomic Policy.) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 Managerial Economics, and ECON 295 Macroeconomic Policy, that are prerequisites for 300-level courses in economics do not count as part of this Minor Concentration. ECON 227 Economic Statistics, will not count if it is taken to meet other B.Com. requirements.

Language Component

9-12 credits from the following:

1	Students may choose to complete additional credits in Japanese, Chinese or Korean for a total of 18 credits. Only 9 credits of EAST languages will count toward the Major and any optional additional credits will count as electives or toward another component if the student has sufficient credits to complete it within their degree. Students may not exceed the total credits required to graduate in order to complete these additional language credits.
2	Students with no prior knowledge of Arabic may choose two levels of Arabic. Only ISLA 221D1 Introductory Arabic./ISLA 221D2 Introductory Arabic. will count toward the Major and any additional optional credits in ISLA 322D1 Lower Intermediate Arabic./ISLA 322D2 Lower Intermediate Arabic. or ISLA 423D1 Higher Intermediate Arabic./ISLA 423D2 Higher Intermediate Arabic. will count as electives.

OR

12 credits of language courses, at the 500 level or lower, chosen from ONE of the following Subject Codes:

CLAS (Classics) [Modern Greek]

EAST (East Asian) - Third and Fourth Level

FREN (French)

FRSL (French as a Second Language)

GERM (German Studies) [German]

HISP (Hispanic Studies) [Spanish, Portuguese]

ISLA (Middle East Studies) [Lower and Higher Intermediate Level Arabic, Turkish, Urdu, Persian]

² ITAL (Italian Studies) [Italian]

JWST (Jewish Studies) [Hebrew, Yiddish]

RUSS (Russian)

¹ Students placed in Lower Intermediate Arabic will complete ISLA 322D1 Lower Intermediate Arabic./ISLA 322D2 Lower Intermediate Arabic. and ISLA 423D1 Higher Intermediate Arabic./ISLA 423D2 Higher Intermediate Arabic. for a total of 12 credits.

² Students wishing to register for ITAL 205D1 Italian for Beginners./ITAL 205D2 Italian for Beginners. should do so in their first year as this course is open only to U0 and U1 students. ITAL 206 Beginners Italian Intensive. is open to U0, U1, and U2 students. ITAL 210D1 Italian for Advanced Beginners./ITAL 210D2 Italian for Advanced Beginners., ITAL 215D1 Intermediate Italian./ITAL 215D2 Intermediate Italian., and ITAL 216 Intermediate Italian Intensive. can be taken by all students.

Note: Registration processes for language courses vary by department, but usually involve placement tests or departmental approval. Students

should consult with the individual departments to ensure that they register for the appropriate level.

Managing for Sustainability Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The B.Com.; Major in Managing for Sustainability focuses on combining management and business knowledge with a solid understanding of the interlinked economic, social and ecological challenges of achieving sustainability. It integrates management studies with fundamentals of environmental science and sustainability.

The Major includes the integration of multiple management disciplines with sustainability; fundamental concepts of environmental science, social sciences and human impacts on natural systems; and an experiential learning component in the form of a consulting engagement, internship or research project offering "real world" experience.

Required Courses (48 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
MGPO 440	Strategies for Sustainability.	3
MSUS 402	Systems Thinking and Sustainability.	3

Complementary Courses (24 credits)

3-9 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 401	Sustainability and Environmental Accounting.	3
FINE 465	Sustainable Finance .	3
INSY 455	Technology and Innovation for Sustainability.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGSC 488	Sustainability and Operations.	3
MRKT 351	Marketing and Society.	3

3-9 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 451D1	Creating Impact Through Research.	3
BUSA 451D2	Creating Impact Through Research.	3
MGPO 430	Practicum in Not for Profit Consulting.	3
MGSC 483	Analytics-Based Community Project.	3
MSUS 400	Independent Studies in Sustainability.	3
MSUS 401	Sustainability Consulting.	3
MSUS 497	Internship in Sustainability.	3
RETL 410	Sustainable Retail and Entrepreneurship.	3

0-9 credits from the following:

Expand allContract all

Course	Title	Credits
INDR 294	Introduction to Labour-Management Relations.	3
INDR 492	Globalization and Labour Policy.	3
MGPO 365	Business-Government Relations.	3
MGPO 435	The Origins of Capitalism.	3
MGPO 450	Ethics in Management.	3
MGPO 469	Managing Globalization.	3
MGPO 475	Strategies for Developing Countries.	3
MSUS 434	Topics in Sustainability 1	3
ORGB 321	Leadership.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 421	Managing Organizational Change.	3

Or any related undergraduate topics course (with approvals from the Program Mentor and the BCom Office).

6-12 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3

Note: ENVR courses have limited enrolment.

3 credits of environmentally-related courses. A list of Suggested Courses is provided below.

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

Some courses may be subject to other regulations.

This list is not exhaustive. You are encouraged to examine the course lists of the various programs in Environment for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Adviser.

Location Note:

When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Social Sciences and Policy

[Expand all](#)[Contract all](#)

Course	Title	Credits
AGEC 231	Economic Systems of Agriculture.	3
AGEC 333	Resource Economics.	3
AGEC 430	Agriculture, Food and Resource Policy.	3
AGEC 442	Economics of International Agricultural Development.	3
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 206	Environment and Culture.	3
ANTH 212	Anthropology of Development.	3
ANTH 339	Ecological Anthropology.	3
ANTH 512	Political Ecology.	3
ECON 205	An Introduction to Political Economy.	3
ECON 225	Economics of the Environment.	3
ECON 326	Ecological Economics.	3
ECON 347	Economics of Climate Change.	3
ECON 405	Natural Resource Economics.	3
ENVB 437	Assessing Environmental Impact.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 203	Knowledge, Ethics and Environment.	3
ENVR 400	Environmental Thought.	3
GEOG 200	Geographical Perspectives: World Environmental Problems.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 221	Environment and Health.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 301	Geography of Nunavut.	3
GEOG 302	Environmental Management 1.	3
GEOG 303	Health Geography.	3
GEOG 408	Geography of Development.	3
NRSC 221	Environment and Health.	3
PHIL 230	Introduction to Moral Philosophy 1.	3
PHIL 237	Contemporary Moral Issues.	3
PHIL 334	Ethical Theory.	3
PHIL 343	Biomedical Ethics.	3
PHIL 348	Philosophy of Law 1.	3
POLI 212	Introduction to Comparative Politics - Europe/North America.	3
POLI 227	Introduction to Comparative Politics - Global South.	3
POLI 345	International Organizations.	3
POLI 445	International Political Economy: Monetary Relations.	3
PSYC 215	Social Psychology.	3
RELG 270	Religious Ethics and the Environment.	3
RELG 370	Religion and Human Rights.	3
SOCI 222	Urban Sociology.	3
SOCI 234	Population and Society.	3
SOCI 235	Technology and Society.	3
SOCI 254	Development and Underdevelopment.	3
SOCI 386	Contemporary Social Movements.	3
URBP 201	Planning the 21st Century City.	3
URBP 506	Environmental Policy and Planning.	3
URBP 530	Urban Infrastructure and Services in International Context.	3
URBP 551	Urban Design and Planning.	3

Natural Sciences and Technology

[Expand all](#)[Contract all](#)

Course	Title	Credits
AGRI 340	Principles of Ecological Agriculture.	3
ANSC 326	Fundamentals of Population Genetics.	3
ATOC 215	Oceans, Weather and Climate.	3
BIOL 240	Monteregian Flora.	3
BIOL 305	Animal Diversity.	3
BIOL 308	Ecological Dynamics. ¹	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 342	Global Change Biology of Aquatic Ecosystems.	3
BIOL 418	Freshwater Invertebrate Ecology.	3
BIOL 432	Limnology.	3
BIOL 436	Evolution and Society. ¹	3
BIOL 465	Conservation Biology.	3
BREE 217	Hydrology and Water Resources. ¹	3
BREE 322	Management of Organic Residue	3

BREE 518	Ecological Engineering.	3	Information Science., but not both; you may take one of BREE 217 Hydrology and Water Resources., CIVE 323 Hydrology and Water Resources. or GEOG 322 Environmental Hydrology.; you may take BIOL 308 Ecological Dynamics. or ENVB 305 Population and Community Ecology., but not both; you may take BIOL 465 Conservation Biology. or WILD 421 Wildlife Conservation. but not both; you may take EPSC 201 Understanding Planet Earth. or EPSC 233 Earth and Life Through Time, but not both.
CHEM 212	Introductory Organic Chemistry 1.	4	
CHEM 281	Inorganic Chemistry 1.	3	
CIVE 225	Environmental Engineering.	4	
CIVE 323	Hydrology and Water Resources. ¹	3	
CIVE 550	Water Resources Management.	3	
ENVB 210	The Biophysical Environment.	3	
ENVB 301	Meteorology.	3	
ENVB 305	Population and Community Ecology. ¹	3	
ENVB 410	Ecosystem Ecology.	3	
ENVB 415	Ecosystem Management.	3	
ENVB 529	GIS for Natural Resource Management. ¹	3	
ENVR 200	The Global Environment.	3	
ENVR 202	The Evolving Earth.	3	
EPSC 201	Understanding Planet Earth. ¹	3	
EPSC 233	Earth and Life Through Time	3	
EPSC 549	Hydrogeology.	3	
ESYS 301	Earth System Modelling.	3	
GEOG 200	Geographical Perspectives: World Environmental Problems.	3	
GEOG 201	Introductory Geo-Information Science. ¹	3	
GEOG 203	Environmental Systems.	3	
GEOG 205	Global Change: Past, Present and Future.	3	
GEOG 272	Earth's Changing Surface.	3	
GEOG 305	Soils and Environment.	3	
GEOG 308	Remote Sensing for Earth Observation.	3	
GEOG 321	Climatic Environments.	3	
GEOG 322	Environmental Hydrology. ¹	3	
GEOG 372	Running Water Environments. ¹	3	
LSCI 230	Introductory Microbiology.	3	
MICR 331	Microbial Ecology.	3	
MIME 320	Extraction of Energy Resources. ¹	3	
MIMM 211	Introductory Microbiology.	3	
MIMM 323	Microbial Physiology.	3	
NRSC 333	Pollution and Bioremediation.	3	
PARA 410	Environment and Infection.	3	
PARA 515	Water, Health and Sanitation.	3	
PLNT 304	Biology of Fungi.	3	
PLNT 305	Plant Pathology.	3	
PLNT 358	Flowering Plant Diversity.	3	
PLNT 460	Plant Ecology.	3	
SOIL 300	Geosystems. ¹	3	
WILD 421	Wildlife Conservation.	3	

¹ Note: you may take LSCI 230 Introductory Microbiology. or MIMM 211 Introductory Microbiology., but not both; you may take ENVB 529 GIS for Natural Resource Management. or GEOG 201 Introductory Geo-

Marketing Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The B.Com.; Major in Marketing is designed to provide a strong background in marketing suitable for a wide variety of careers. The program emphasizes digital marketing, marketing analytics, brand management, advertising, innovation, and sales management.

Required Courses (51 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
MRKT 354	Marketing Strategy.	3
MRKT 451	Marketing Research.	3
MRKT 452	Consumer Behaviour.	3

Complementary Courses (21 credits)

21 credits selected from:

Expand all	Contract all			
Course	Title	Credits		
MRKT 351	Marketing and Society.	3	MGCR 293	Managerial Economics.
MRKT 355	Services Marketing.	3	MGCR 294	The Firm in the Macroeconomy.
MRKT 357	Marketing Planning 1.	3	MGCR 331	Information Technology Management .
MRKT 365	New Products.	3	MGCR 341	Introduction to Finance.
MRKT 434	Topics in Marketing 1.	3	MGCR 352	Principles of Marketing.
MRKT 438	Brand Management.	3	MGCR 372	Operations Management.
MRKT 440	Marketing Analytics.	3	MGCR 382	International Business.
MRKT 453	Advertising and Media.	3	MGCR 423	Strategic Management.
MRKT 455	Sales Management.	3	MGCR 460	Social Context of Business.
MRKT 459	Retail Management.	3		
MRKT 483	International Marketing Management.	3		

Mathematics and Statistics for Management Major (B.Com.) (75 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 75

Program Description

(72-75 credits)

The B.Com.; Major in Mathematics and Statistics for Management focuses on newer methodologies and strategies to solve current and modern real-world problems. This program may be completed in 72 or 75 credits.

Program Prerequisites

Before entering the program, students must have completed the following courses [or their equivalent] if not already completed, above the program's 72-75 credits.

0-10 credits from:

Expand all	Contract all			
Course	Title	Credits		
MATH 133	Linear Algebra and Geometry.	3	COMP 202	Foundations of Programming.
MATH 140	Calculus 1.	3	COMP 551	Applied Machine Learning.
MATH 141	Calculus 2.	4	FINE 452	Applied Quantitative Finance.

Required Courses (63 credits)

Management Core

Expand all	Contract all			
Course	Title	Credits		
MGCR 211	Introduction to Financial Accounting.	3	MGCR 211	Introduction to Financial Accounting.
MGCR 222	Introduction to Organizational Behaviour.	3	MGCR 222	Introduction to Organizational Behaviour.
MGCR 233	Data Programming for Business.	3	MGCR 233	Data Programming for Business.
MGCR 250	Expressive Analysis for Management.	3	MGCR 250	Expressive Analysis for Management.
MGCR 271	Business Statistics.	3	MGCR 271	Business Statistics.

Major

Expand all	Contract all			
Course	Title	Credits		
MATH 222	Calculus 3.	3	MATH 222	Calculus 3.
MATH 223	Linear Algebra.	3	MATH 223	Linear Algebra.
MATH 242	Analysis 1.	3	MATH 242	Analysis 1.
MATH 243	Analysis 2.	3	MATH 243	Analysis 2.
MATH 323	Probability.	3	MATH 323	Probability.
MGSC 372	Advanced Business Statistics. ¹	3	MGSC 372	Advanced Business Statistics. ¹
MGSC 373	Operations Research 1.	3	MGSC 373	Operations Research 1.

¹ Or equivalent.

Complementary Courses (9-12 credits)

9-12 credits from:

Expand all	Contract all			
Course	Title	Credits		
COMP 202	Foundations of Programming.	3	COMP 202	Foundations of Programming.
COMP 551	Applied Machine Learning.	4	COMP 551	Applied Machine Learning.
FINE 452	Applied Quantitative Finance.	3	FINE 452	Applied Quantitative Finance.
FINE 460	Financial Analytics.	3	FINE 460	Financial Analytics.
MATH 208	Introduction to Statistical Computing.	3	MATH 208	Introduction to Statistical Computing.
MATH 308	Fundamentals of Statistical Learning.	3	MATH 308	Fundamentals of Statistical Learning.
MATH 314	Advanced Calculus.	3	MATH 314	Advanced Calculus.
MATH 315	Ordinary Differential Equations. ¹	3	MATH 315	Ordinary Differential Equations. ¹
MATH 324	Statistics.	3	MATH 324	Statistics.
MATH 423	Applied Regression.	3	MATH 423	Applied Regression.
MATH 427	Statistical Quality Control.	3	MATH 427	Statistical Quality Control.
MATH 447	Introduction to Stochastic Processes.	3	MATH 447	Introduction to Stochastic Processes.
MATH 523	Generalized Linear Models.	4	MATH 523	Generalized Linear Models.
MATH 524	Nonparametric Statistics.	4	MATH 524	Nonparametric Statistics.
MATH 545	Introduction to Time Series Analysis.	4	MATH 545	Introduction to Time Series Analysis.
MATH 559	Bayesian Theory and Methods.	4	MATH 559	Bayesian Theory and Methods.
MGSC 403	Introduction to Logistics Management.	3	MGSC 403	Introduction to Logistics Management.

MGSC 431	Operations and Supply Chain Analysis. 2	3
MGSC 434	Topics in Operations Management 1	3

- ¹ Students interested in upper-level statistics courses offered by the Department of Mathematics and Statistics are strongly encouraged to take this course.
- Students must consult the rules for credits and sequencing for Statistics courses in the Desautels Faculty of Management Course Overlap section.
- ² MGSC 434 Topics in Operations Management 1 when the topic is relevant to this program and approved by the Mathematics program adviser.

Students must consult the rules for credits and sequencing for Statistics courses in the Desautels Faculty of Management Course Overlap section.

Organizational Behaviour and Human Resources Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The B.Com.; Major in Organizational Behaviour and Human Resources focuses on analyzing and influencing repeated patterns of action in groups and organizations, including leadership, human resource management, team management and concepts of management at multiple levels of the organization. The program also includes foundational studies in one or more of the following social science disciplines: psychology, sociology, anthropology, or industrial relations.

Required Courses (45 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management.	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
ORGB 423	Human Resources Management.	3

Complementary Courses (27 credits)

18 credits from the following:

Expand allContract all

Course	Title	Credits
ORGB 321	Leadership.	3
ORGB 325	Negotiations and Conflict Resolution.	3
ORGB 330	People Analytics.	3
ORGB 380	Cross Cultural Management.	3
ORGB 401	Leadership Practicum in Social Sector.	3
ORGB 420	Managing Organizational Teams.	3
ORGB 421	Managing Organizational Change.	3
ORGB 434	Topics in Organizational Behaviour 1.	3
ORGB 440	Career Theory and Development.	3
ORGB 509	Organizational Research Methods.	3
ORGB 525	Compensation Management.	3

9 credits at the 300 or 400 level of PSYC, SOCI, ANTH, or INDR courses with permission of the offering unit.

Focusing on pursuing depth within a single discipline is encouraged but not required.

Retail Management Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 72

Program Description

The retail industry is experiencing a period of unparalleled changes where emerging technologies such as artificial intelligence (AI) and automation are transforming every stage of the retail journey. The Retail Management major will arm the students with valuable analytical, reasoning, management and communication skills and place them at the forefront of a fast evolving and innovated retail industry while promoting for sustainability, and long-term social and environmental benefits. Admission requirements: as per other B.Com. programs offered by the Desautels Faculty of Management.

Required Courses (60 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3

MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Major

Expand allContract all

Course	Title	Credits
MRKT 459	Retail Management.	3
RETL 402	Innovations in Retailing.	3
RETL 407	Retail Management Project.	3
RETL 408	Omni-Channel Retailing.	3
RETL 409	Digitization of Retailing.	3
RETL 410	Sustainable Retail and Entrepreneurship.	3

Complementary Courses (12 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
FINE 447	Venture Capital and Entrepreneurial Finance.	3
FINE 477	Fintech for Business and Finance.	3
INDR 294	Introduction to Labour-Management Relations.	3
INSY 440	E-Business.	3
INSY 442	Data Analysis and Visualization.	3
MGPO 440	Strategies for Sustainability.	3
MGSC 403	Introduction to Logistics Management.	3
MGSC 431	Operations and Supply Chain Analysis.	3
MRKT 355	Services Marketing.	3
MRKT 440	Marketing Analytics.	3
MRKT 451	Marketing Research.	3
MRKT 452	Consumer Behaviour.	3
MRKT 453	Advertising and Media.	3
MRKT 455	Sales Management.	3
ORGB 330	People Analytics.	3
ORGB 423	Human Resources Management.	3
RETL 434	Topics in Retail Management 1	3

Strategic Management Major (B.Com.) (72 credits)

Offered by: Management (Desautels Faculty of Management)**Degree:** Bachelor of Commerce**Program credit weight:** 72

Program Description

The Strategic Management Major combines traditional topics in strategic management, such as competition and globalization, with attention to pressing social, and environmental challenges. Since the activities of contemporary businesses can no longer be considered separately from these challenges, the Major is intended to foster a holistic view of management practice. Students will be encouraged to consider strategy formation and change for large corporations, small businesses, and social enterprises within their economic, social and environmental contexts. Because Strategic Management is a broad subject area, students are given flexibility to tailor this Major to their interests. Anticipated career trajectories are diverse, and include positions in management consulting, business development in new start-ups and small businesses; and strategic planning and analysis in large multinationals, NGOs, international organizations, and government agencies.

All BCom students take a Core curriculum in addition to this Major.

Required Courses (42 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Complementary Courses (30 credits)

9-15 credits from the following:

Expand allContract all

Course	Title	Credits
MGPO 383	International Business Policy.	3
MGPO 445	Industry Analysis and Competitive Strategy.	3

MGPO 460	Managing Innovation.
MGPO 469	Managing Globalization.
MGPO 470	Strategy and Organization.

9-15 credits from the following:

Expand allContract all

Course	Title	Credits
MGPO 365	Business-Government Relations.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MGPO 440	Strategies for Sustainability.	3
MGPO 450	Ethics in Management.	3
MGPO 475	Strategies for Developing Countries.	3
MGPO 485	Emerging Technologies: Organizing and Societal Stakes.	3

0-12 credits from the following:

Expand allContract all

Course	Title	Credits
AGRI 411	Global Issues on Development, Food and Agriculture.	3
ANTH 212	Anthropology of Development.	3
BUSA 300	Case Analysis and Presentation.	3
BUSA 391	International Business Law.	3
ECON 305	Industrial Organization.	3
ECON 313	Economic Development 1.	3
ECON 314	Economic Development 2.	3
INTD 200	Introduction to International Development.	3
MGPO 362	Fundamentals of Entrepreneurship.	3
MGPO 402	Dynamic Cities.	3
MGPO 430	Practicum in Not for Profit Consulting.	3
MGPO 433	Topics in Social Business and Enterprise.	3
MGPO 434	Topics in Policy 1.	3
MGPO 435	The Origins of Capitalism.	3
ORGB 380	Cross Cultural Management.	3

3 The B.Com. Honours Investment Management is a limited enrolment program and is by application only for students entering their U2 year. A minimum CGPA of 3.3 is necessary for students to be eligible to apply. Additional information may be found at the BCom Student Affairs Office, or on our website. In order to graduate in Honours in Investment Management, students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.0. A grade of B- or better must be achieved in all courses counted toward this program. Students who do not satisfy all the requirements of the Honours program may still receive a Major in Finance, provided the major requirements have been met.

3 All B.Com. students take a Core curriculum in addition to the Honours program.

Required Courses (72 credits)

Management Core

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 233	Data Programming for Business.	3
MGCR 250	Expressive Analysis for Management.	3
MGCR 271	Business Statistics.	3
MGCR 293	Managerial Economics.	3
MGCR 294	The Firm in the Macroeconomy.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

Honours

Expand allContract all

Course	Title	Credits
ACCT 354	Financial Statement Analysis.	3
FINE 342	Corporate Finance.	3
FINE 440D1	Honours Investment Management Research Project 1.	1.5
FINE 440D2	Honours Investment Management Research Project 1.	1.5
FINE 441	Investment Management.	3
FINE 443	Applied Corporate Finance.	3
FINE 448	Financial Derivatives.	3
FINE 450D1	Honours Investment Management Research Project 2.	1.5
FINE 450D2	Honours Investment Management Research Project 2.	1.5
FINE 451	Fixed Income Analysis.	3

Investment Management Honours (B.Com.) (87 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Commerce

Program credit weight: 87

Program Description

The B.Com. Honours Investment Management examines financial asset management, either on the buy side working with active portfolio allocation or on the sell side, working for brokerage firms. Rigorous training in accounting, statistics, and finance, including analyzing financial statements, performing company valuations, constructing efficient portfolios with appropriate risk profiles, and managing risk using dynamic trading strategies and derivative instruments.

FINE 482	International Finance 1.
MGSC 372	Advanced Business Statistics.

3 **Program credit weight:** 200-204 credits

Complementary Courses (15 credits)

Quantitative Courses

6-9 credits from the following:

Expand allContract all		
Course	Title	Credits
ACCT 451	Data Analytics in Capital Market.	3
ACCT 452	Financial Reporting Valuation. ¹	3
FINE 434	Topics in Finance 1.	3
FINE 435	Advanced Topics in Finance 1 ¹	3
FINE 449	Risk Management in Finance.	3
FINE 452	Applied Quantitative Finance.	3
FINE 460	Financial Analytics.	3

¹ FINE 434 Topics in Finance 1. and FINE 435 Advanced Topics in Finance 1 can count as a complementary course with approval of the Academic Director.

Industry Specialization Courses

6-9 credits from the following:

Expand allContract all		
Course	Title	Credits
FINE 434	Topics in Finance 1. ¹	3
FINE 435	Advanced Topics in Finance 1 ¹	3
FINE 442	Capital Markets and Institutions.	3
FINE 444	Security Trading and Market Making.	3
FINE 445	Real Estate Finance.	3
FINE 446	Behavioural Finance.	3
FINE 447	Venture Capital and Entrepreneurial Finance.	3
FINE 455	Alternative Investments.	3
FINE 456	Hedge Fund Strategies and Trading.	3
FINE 464	Pension Funds and Retirement Systems.	3
FINE 465	Sustainable Finance .	3
FINE 477	Fintech for Business and Finance.	3
FINE 490	Mergers and Corporate Reorganizations.	3

¹ FINE 434 Topics in Finance 1. and FINE 435 Advanced Topics in Finance 1 can count as a complementary course with approval of the Academic Director.

Medicine (M.D.,C.M.) (200-204 credits)

Offered by: Medicine and Health Sciences (Faculty of Dental Medicine and Oral Health Sciences)

Degree: MDCM

Program Description

Conferral of the M.D., C.M. degree follows successful completion of the 4 curricular components of the MD, CM Program: Fundamentals of Medicine and Dentistry (year 1 and the first part of year 2), Transition to Clinical Practice (second part of year 2), Clerkship (years 3 and 4) and Physicianship (longitudinal throughout all 4 years). Program objectives are based on clinical presentations and competencies essential to the practice of medicine, as defined by Canadian authorities (e.g.

Medical Council of Canada, Royal College of Physicians and Surgeons of Canada and the College of family Physicians of Canada). Graduates are expected to be able to function responsibly, in a supervised clinical setting, at the level of an "undifferentiated" physician (see <http://www.mcgill.ca/ugme/mdcm-curriculum-joint-programs>).

Note: The M.D., C.M. graduate may apply for a license only to practice medicine in a supervised (postgraduate residency training program) setting, and not for independent practice.

Required Courses (200 credits)

Fundamental of Medicine and Dentistry

Expand allContract all

Course	Title	Credits
INDS 111	Molecules to Global Health.	6
INDS 112	Respiration.	6
INDS 113	Circulation.	8
INDS 114	Digestion and Metabolism.	8
INDS 115	Renal.	6
INDS 116	Defense.	6
INDS 117	Infection.	6
INDS 118	Movement.	6
INDS 123J1	Research Fundamentals 1.	1
INDS 123J2	Research Fundamentals 1.	1
INDS 123J3	Research Fundamentals 1.	1
INDS 124J1	Longitudinal Family Medicine Experience.	1
INDS 124J2	Longitudinal Family Medicine Experience.	1
INDS 124J3	Longitudinal Family Medicine Experience.	1
INDS 125J1	FMD Integrated Assessment 1.	0
INDS 125J2	FMD Integrated Assessment 1.	0
INDS 125J3	FMD Integrated Assessment 1.	0
INDS 211	Reproduction, Sexuality and Hormonal Function.	7
INDS 212	Human Behaviour.	12
INDS 223	Research Fundamentals 2.	1.5
INDS 225	FMD Integrated Assessment 2.	0

Transition to Clinical Practice

Expand allContract all

Course	Title	Credits
FMED 301	TCP Family Medicine.	3
IMED 301	TCP Internal Medicine.	6
INDS 224J1	Community Health Alliance Project - C.H.A.P..	0.67

INDS 224J2	Community Health Alliance Project - C.H.A.P..	0.67	INDS 300	Mindful Medical Practice - Transition to Clinical Practice.	1.5
INDS 224J3	Community Health Alliance Project - C.H.A.P..	0.67	INDS 302	Medical Ethics and Health Law.	1.5
INDS 305	Transition to Clerkship.	2	INDS 319	Clinical Method 3.	1.5
INDS 323	TCP Integrated Assessment .	0	INDS 320J1	Formation of the Professional and Healer.	.5
NEUR 301	TCP Neurology.	2	INDS 320J2	Formation of the Professional and Healer.	.5
OPTH 300	TCP Ophthalmology.	1	INDS 320J3	Formation of the Professional and Healer.	.5
PAED 301	TCP Pediatrics.	2	INDS 322J1	Physician Apprenticeship 3.	0.5
RADD 301	TCP Radiology.	1	INDS 322J2	Physician Apprenticeship 3.	0.5
SURG 301	TCP Surgery.	4	INDS 322J3	Physician Apprenticeship 3.	0.5

Clerkship

Expand allContract all

Course	Title	Credits	Course	Title	Credits
ELEC 400	Elective 1 Clerkship.	4	IPEA 500	Roles in Interprofessional Teams.	0
ELEC 401	Elective 2 Clerkship.	3	IPEA 501	Communication in Interprofessional Teams.	0
ELEC 402	Elective 3 Clerkship.	3	IPEA 502	Partnership in Interprofessional Teams	0
ELEC 403	Elective 4 Clerkship.	3	IPEA 503	Managing Interprofessional Conflict.	0
ELEC 404	Elective 5 Clerkship.	3			
FMED 405	Family Medicine Clerkship.	8			
IMED 401	Internal Medicine Clerkship.	8			
IMED 407	Geriatric Medicine Clerkship.	4			
INDS 408	Emergency Medicine Clerkship.	4			
INDS 421	Transition to Residency.	8			
INDS 423	Clerkship Integrated Assessment 1.	0			
INDS 424	Clerkship Integrated Assessment 2.	0			
INDS 426	Putting It All Together: Basic Science, Medicine and Society.	6			
INDS 427	Public Health and Preventive Medicine Clerkship.	1			
OBGY 401	Obstetrics and Gynecology Clerkship.	6			
PAED 401	Pediatrics Clerkship.	6			
PSYT 401	Psychiatry Clerkship.	8			
SURG 402	Surgery Clerkship.	8			

Physicianship

Expand allContract all

Course	Title	Credits	
INDS 119J1	Clinical Method 1.	1	
INDS 119J2	Clinical Method 1.	1	
INDS 119J3	Clinical Method 1.	1	
INDS 122J1	Physician Apprenticeship 1.	0.67	
INDS 122J2	Physician Apprenticeship 1.	0.67	
INDS 122J3	Physician Apprenticeship 1.	0.67	
INDS 219	Clinical Method 2.	1	
INDS 222J1	Physician Apprenticeship 2.	.5	
INDS 222J2	Physician Apprenticeship 2.	.5	
INDS 222J3	Physician Apprenticeship 2.	.5	

Elective Course (0-4 credits)

Expand allContract all

Course	Title	Credits
ELEC 200	Global and Public Health Pre-Clerkship Elective.	0
ELEC 300	Elective.	4

Doctor of Medicine & Master of Surgery with Ph.D. (Joint M.D.,C.M. & Ph.D.)

Offered by: Medicine and Health Sciences (Faculty of Dental Medicine and Oral Health Sciences)

Degree: MDCM

Program Description

Students interested in a research career in academic medicine may wish to apply for admission to the joint M.D.,C.M. & Ph.D. program. This is a seven-year program in which the basic and clinical sciences portion of the medical curriculum are completed from September of Year One to December 31 of Year Two, prior to the beginning of full-time graduate studies. The latter are expected to last three, but no more than four, years by which time all course work and the research requirements for the Ph.D. degree must have been completed and a thesis submitted. The defence of the thesis will ordinarily take place at a later date. From January of Year Five to May of Year Seven, students will complete the requirements for the M.D.,C.M. degree. Throughout the seven years, students in the M.D.,C.M. & Ph.D. program meet each Thursday evening during the academic year to discuss their research, hear research seminars from clinician-scientists, and network with other students in the program.

Once accepted to the M.D.,C.M. & Ph.D. program and during the first year of the combined program, students begin the process of choosing a supervisor and research laboratory for their Ph.D. studies. The McGill Faculty of Medicine and Health Sciences Winter and Summer Research Bursary provide excellent opportunities for exploring potential laboratories. Research is usually carried out on a topic in the

biomedical sciences within one of the Basic Science or Clinical Science Departments within the Faculty of Medicine and Health Sciences. With the help of the M.D.,C.M. & Ph.D. Program Advisory Committee, students must choose a supervisor and department for their Ph.D. studies by September of Year Two and be accepted for admission to graduate studies by McGill Graduate and Postdoctoral Studies.

The language of instruction is English.

Please refer to the full M.D.,C.M. curriculum (p. 622).

Medicine & Oral and Maxillofacial Surgery (Joint M.D.,C.M. & O.M.F.S.)

Offered by: Medicine and Health Sciences (Faculty of Dental Medicine and Oral Health Sciences)

Degree: MDCM

Program Description

McGill University, through the Faculty of Medicine and Health Sciences and the Faculty of Dental Medicine and Oral Health Sciences, offers a joint M.D.,C.M. & Oral and Maxillofacial Surgery Program. Upon successful completion of this six-year program, students will receive an M.D.,C.M. degree from the Faculty of Medicine and Health Sciences and a Certificate in Oral and Maxillofacial Surgery from the Faculty of Dental Medicine and Oral Health Sciences. The program is fully accredited by the Commission on Dental Accreditation of Canada. The M.D.,C.M. degree is fully accredited by the Liaison Committee for Medical Education and the Council on Accreditation of Canadian Medical Schools.

The program is based at the McGill University Health Centre (MUHC), The Montreal General Hospital, which is a level-one trauma centre, serving downtown Montreal and surrounding areas. The MUHC is one of the most comprehensive university centres in North America. Each year it receives over 802,000 ambulatory visits including 134,000 emergency department visits.

The language of instruction is English.

Please refer to the full M.D.,C.M. curriculum (p. 622).

For more detailed information, see: www.mcgill.ca/dentistry/6-year-integrated-mdcm-omfs-residency-program.

Medicine Preparatory Program (Med-P Program)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program Description

The Faculty of Medicine and Health Sciences offers a special program for immediate graduates of the Quebec Collegial (CEGEP) system, which consists of one year of coursework in the Faculty of Science followed by the standard four-year M.D.,C.M. program. During the Med-P year, students are registered in the Faculty of Science. All campus-wide services including student advising, tutorship, financial aid, and academic support are available to Med-P students.

The Med-P curriculum consists of courses in molecular biology, cell biology and metabolism, organic chemistry (where applicable), along with a selection of courses in fields such as computer science, intermediate chemistry, physiology, and mathematics. Students are required to take courses in the Humanities and Social Sciences, along with electives of their choosing for the purpose of broadening and enriching their education.

In order to successfully complete the Med-P year and to be admitted to the M.D.,C.M. program, students must obtain a minimum of a "B" grade in each of the compulsory courses and a minimum cumulative grade point average (CGPA) of 3.5. Students who do not meet the above criteria are subject to review and may be: (a) admitted with or without conditions; (b) required to pursue a second preparatory year, or (c) invited to re-apply for admission upon completion of an undergraduate (Bachelor's degree).

There are many more applicants for the Med-P program than can be accepted. Unsuccessful applicants are generally well-qualified for admission into other undergraduate degree programs (e.g., B.A., B.Sc., etc.). In their own interest, all applicants are encouraged to apply to an alternate program. This can be done by making a second program selection when submitting an online application via Minerva.

The program is offered by the Faculty of Science in English on McGill's Montreal campus, and Gatineau, Quebec in French in partnership with Université du Québec en Outaouais. Students completing the Med-P year in Gatineau continue to the MDCM program in French at Campus Outaouais.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Other Programs Offered Within the Faculty of Medicine and Health Sciences

Bachelor of Science (B.Sc.) Programs

For Bachelor of Science (B.Sc.) programs available from the departments in the Faculty of Medicine and Health Sciences, consult the Faculty of Science undergraduate section.

Graduate Studies and Research in the Medical Sciences

Opportunities for graduate work in the basic medical and clinical sciences leading to the degree of **Ph.D.** are offered by many of the departments of the Faculty of Medicine and Health Sciences; for information about graduate programs offered, consult the Graduate section of the Faculty of Medicine and Health Sciences.

By special arrangement, a combined **M.D.,C.M. & Ph.D.** program is available (see Doctor of Medicine & Master of Surgery with Ph.D. (Joint M.D.,C.M. & Ph.D.) (p. 623)). Details of professional programs available can be found at About Medical Programs.

Research in clinical disciplines is carried out at all locations of the McGill University Health Centre:

- MUHC Glen Site;
- Montreal General Hospital;
- Montreal Neurological Institute and Hospital.

Research opportunities are also available at the Lady Davis Institute of the Jewish General Hospital, the Douglas Mental Health University Institute, and the Shriners Hospital for Children. For administrative purposes, graduate work in several clinical departments is grouped under the Division of Experimental Medicine and the Division of Surgical and Interventional Sciences. Other departments administer individual graduate programs. Consult the Faculty of Medicine and Health Sciences Graduate sections for a description of the programs, or consult the full list of Schools, Departments, and Other Units within the Faculty of Medicine and Health Sciences to view their respective websites.

Inquiries concerning research training in the medical sciences should be directed to the Chair or Graduate Program Director of the department in which the candidates wish to receive their graduate education.

Graduate Training Programs in the Clinical Departments

The Faculty of Medicine and Health Sciences, in conjunction with the affiliated teaching hospitals, offers a wide variety of programs leading to McGill Certificates of Residency Training and certification by the *Collège des médecins du Québec* (CMQ), the College of Family Physicians of Canada, and the Royal College of Physicians and Surgeons of Canada. For information on the graduate medical programs available, their eligibility requirements, and funding opportunities, please consult mcgill.ca/pgme.

Applied Performance Sciences Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The B.Mus. Minor in Applied Performance Sciences is an introduction to key topics in performance science and how they are applied to music practice, performance, creation, and education. The program

offers opportunities to explore new intersections between music and applied sciences by examining topics related to optimal performance, healthy playing and singing, as well as physical, psychological, and social determinants in music development, learning, and performance, and applied research approaches. This program focuses on developing scientific awareness and applying scientific knowledge to music learning, performing, and teaching practices.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
MUGT 205	Psychology of Music.	3
MUGT 350	Introduction to Applied Research in Music.	3
MUGT 405	The Musician's Performing Body.	3
MUPG 300	Music Performance Strategies.	3

Complementary Courses (6 credits)

Special Projects

3 credits from:

Expand allContract all

Course	Title	Credits
MUGT 475	Special Project.	3
MUPD 475	Special Project: Professional Development 3.	3
MUPG 475	Special Project in Performance.	3

Interdisciplinary courses

3 credits from:

Expand allContract all

Course	Title	Credits
EDKP 250	Introductory Principles in Applied Kinesiology.	3
EDKP 292	Nutrition and Wellness.	3
EDKP 293	Anatomy and Physiology.	3
MUPG 296	Acting for Voice.	1
MUPG 297	Movement for Voice.	1
MUPG 563	Topics in Performance 1. ¹	1
MUPG 564	Topics in Performance 2. ¹	2
MUPG 565	Topics in Performance 3. ¹	3
PSYC 100	Introduction to Psychology.	3
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 311	Human Cognition and the Brain.	3

¹ When topic is relevant to applied performance sciences.

Composition Major (B.Mus.) (124 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 124

Program Description

The Bachelor of Music (B.Mus.); Major in Composition program offers students a solid grounding in the basics of classical music composition for instruments and voices, with or without electronics. This is achieved through lecture courses and tutorials (private composition lessons in the third and fourth years of the program). The study of topics related to music theory helps to hone students' compositional technique, while the study of topics related to music history helps to develop students' critical thinking skills. Free elective courses allow students either to focus on an area of secondary interest as a minor degree, or to pursue a broader range of course offerings, either within or outside the Schulich School of Music. To ensure consistent performance throughout their program, students are required to achieve a minimum grade of B- in courses given by the Composition Area.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (61 credits)

Composition

Expand allContract all

Course	Title	Credits
MUCO 241	Tonal Composition 1A.	3
MUCO 242	Tonal Composition 1B.	3

MUCO 245	Composition 1A.	2
MUCO 246	Composition 1B.	3
MUCO 261	Orchestration 1.	3
MUCO 340D1	Composition 2.	2
MUCO 340D2	Composition 2.	2
MUCO 341	Digital Studio Composition 1.	3
MUCO 342	Digital Studio Composition 2.	3
MUCO 360	Orchestration 2.	3
MUCO 440D1	Composition 3.	2
MUCO 440D2	Composition 3.	2
MUCO 460	Orchestration 3.	2
MUCO 541	Advanced Digital Studio Composition 1.	3
MUCO 575	Topics in Composition.	3

Theory

Expand allContract all

Course	Title	Credits
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2
MUSP 346	Post-Tonal Musicianship.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Performance/practical lessons

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (13 credits)

Music Theory

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUTH 202	Modal Counterpoint 1.	3
MUTH 204	Tonal Counterpoint 1.	3

Music History

6 credits from the following:

Expand allContract all		
Course	Title	Credits
MUHL 385	Early Twentieth-Century Music.	3
MUHL 391	Canadian Music.	3
MUHL 392	Music since 1945.	3

Performance/ensemble

4 credits from the following:

Expand allContract all		
Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Elective Courses (18 credits)

3 credits of non-Music Electives.

15 credits of Free Electives.

Recommended But Not Required Courses

Expand allContract all		
Course	Title	Credits
MUCO 542	Advanced Digital Studio Composition 2.	3
MUHL 388	Opera After 1900.	3
MUTH 302	Modal Counterpoint 2.	3
MUTH 304	Tonal Counterpoint 2.	3
MUTH 322	Topics in Post-Tonal Analysis.	3
MUTH 528	Schenkerian Theory and Analysis.	3
MUTH 538	Mathematical Models for Musical Analysis.	3
MUTH 539	Topics in Advanced Writing Techniques.	3

Composition Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The B.Mus.; Minor in Composition focuses on an introduction to the techniques and aesthetics of contemporary instrumental and digital composition, including a foundation in orchestration, music history and music theory.

Required Courses (9 credits)

Expand allContract all		
Course	Title	Credits
MUCO 230	The Art of Composition.	3
MUCO 260	Instruments of the Orchestra.	3
MUCO 341	Digital Studio Composition 1.	3

Complementary Courses (9 credits)

9 credits selected from

Expand allContract all		
Course	Title	Credits
MUHL 375	Introduction to Ethnomusicology.	3
MUHL 385	Early Twentieth-Century Music.	3
MUHL 388	Opera After 1900.	3
MUHL 391	Canadian Music.	3
MUHL 392	Music since 1945.	3
MUHL 393	History of Jazz.	3
MUHL 396	Era of the Modern Piano.	3
MUTH 322	Topics in Post-Tonal Analysis.	3
MUTH 526	Methods in Tonal Theory and Analysis.	3
MUTH 528	Schenkerian Theory and Analysis.	3
MUTH 538	Mathematical Models for Musical Analysis.	3
MUTH 539	Topics in Advanced Writing Techniques.	3

Music Studies Major (B.Mus.) (123 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 123

Program Description

The Bachelor of Music (B.Mus.); Major in Music Studies focuses on interdisciplinary aspects of music, including the core music areas such as: music theory, music history, musicianship, and professional development.

Program Prerequisites - Freshman Program (33 credits)

Program prerequisites are selected as follows, in consultation with the Program Adviser:

23 credits of Prerequisite courses
 4 credits of Large Ensemble
 6 credits of non-Music electives

Prerequisite Courses

23 credits, select all of the following courses:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 145	Exploring Interdisciplinary Music Studies 1	2
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (24 credits)

Theory

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3

Musicianship

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Performance

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Professional Development

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUPD 245	Exploring Interdisciplinary Music Studies 2	2
MUPD 350	Applied Projects for Musicians.	3

Complementary Courses (17 credits)

Music History

9 credits from courses with a prefix of MUHL or MUPP at the 300 level or higher.

Musicianship

2 credits from:

Course	Title	Credits
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 355	Musicianship for Percussion.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Performance

6 credits from:

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Elective Courses (49 credits)

6 credits of non-Music Electives.

43 credits of Free Electives.

Faculty Program Music - Jazz (B.Mus.) (123 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 123

Program Description

The Bachelor of Music (B.Mus.); Faculty Program in Music; Jazz requires 123 credits and has been designed to accommodate students who trained as jazz musicians and who are interested in a pattern of specialization not provided in the established major programs, or who are interested in combining studies in music with studies in other disciplines. Students registered in the Faculty Program in Music; Jazz may, with the approval of a staff adviser, design their own programs around specific interests or develop programs with a broader base by incorporating courses from other disciplines and faculties.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite courses

4 credits of Large Ensemble

6 credits of non-Music electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUJZ 160	Jazz Materials 1.	3
MUJZ 161	Jazz Materials 2.	3
MUJZ 170	Jazz Keyboard Proficiency 1.	1
MUJZ 171	Jazz Keyboard Proficiency 2.	1
MUJZ 187	Jazz History Survey.	3
MUPD 135	Music as a Profession 1.	1
MUSP 123	Jazz Ear Training 1.	2
MUSP 124	Jazz Ear Training 2.	2

Required Courses (26 credits)

Theory

Expand allContract all

Course	Title	Credits
MUJZ 262	Applied Jazz Theory.	3
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3
MUTH 250	Theory and Analysis 3.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUJZ 213	Fundamentals of Jazz Improvisation 1.	2
MUJZ 214	Fundamentals of Jazz Improvisation 2.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (12 credits)

Music History

6 credits from courses with a prefix of MUHL or MUPP.

Musicianship

2 credits from:

Course	Title	Credits
MUJZ 323	Advanced Jazz Ear Training.	2
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 355	Musicianship for Percussion.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Performance

4 credits from:

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2

MUEN 587	Cappella McGill.	2	the Orchestra. is waived as a prerequisite for MUCO 230 The Art of Composition..
MUEN 590	McGill Wind Orchestra.	2	
MUEN 592	Chamber Jazz Ensemble.	2	
MUEN 593	Choral Ensembles.	2	
MUEN 594	Contemporary Music Ensemble.	2	
MUEN 595	Jazz Ensembles.	2	
MUEN 597	McGill Symphony Orchestra.	2	

Elective Courses (53 credits)

20 credits of Music Electives.

3 credits of non-Music Electives.

30 credits of Free Electives

Music Education / Music Elementary and Secondary Concurrent Major (B.Mus./B.Ed.) (170 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 170

Program Description

****This program is currently not offered.****

The Concurrent B.Mus./B.Ed. combines the Bachelor of Music (Major Music Education) with the Bachelor of Education (Music Elementary and Secondary).

Requirements are normally completed in five years and lead to certification as a school teacher in the Province of Quebec. Out-of-province students (or those without Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program) are required to complete 170 credits, normally in six years.

Applicants who already hold a Bachelor of Music degree from a North American university should apply directly to the Bachelor of Education in Music Elementary and Secondary (B.Ed. Music) program offered by the Faculty of Education <https://www.mcgill.ca/dise/progs/music>.

Notes:

1. Students majoring in Music Education in the jazz stream may take Jazz Arranging 1 (MUJZ 260 Jazz Arranging 1.) with the permission of the instructor, per available space in the course, and if they have the prerequisite, MUJZ 161 Jazz Materials 2.. Alternatively, they may be asked to register for a different jazz stream course upon the recommendation of the Jazz Area Chair and/or the Music Education Area Chair.
2. In addition to meeting prerequisites/co-requisites for MUCO 230 The Art of Composition. or MUCO 261 Orchestration 1., students must obtain the relevant instructor's permission, per available space in the course, prior to registration. MUCO 260 Instruments of

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of prospective music educators as musicians. This is achieved both through core music history, theory, musicianship, and performance courses, as well as through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musicians as educators. This is achieved through courses in educational foundations, music pedagogy, pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary (excluding the 33-credit Freshman Program) are as follows:

58 credits in Education

71 credits in Music

8 free elective credits

Program Prerequisites - Freshman Program

32 credits distributed as follows:

Prerequisite Courses

4 credits of Large Ensemble

6 credits of non-Music electives

and 22 credits in the following course list:

Students who can demonstrate through placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. The list of courses for which students may take a diagnostic test to seek exemption can be found on the placement exam website.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUPD 235	Music as a Profession 2.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1

Course	Title	Credits
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Course	Title	Credits
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

Electives Courses (8 credits)

8 credits of free electives

Required Courses - Education Component (49 credits)

Expand allContract all

Course	Title	Credits
EDEA 206	1st Year Professional Seminar.	1
EDEA 208	Second Professional Seminar (Music).	1
EDEA 407	Final Year Professional Seminar Music.	3
EDEA 442	Methods in Music Education 1.	3
EDEA 472	Methods in Music Education 2.	3
EDEC 215	English Exam for Teacher Certification.	0
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEC 260	Philosophical Foundations.	3
EDEC 262	Media, Technology and Education.	3
EDES 350	Classroom Practices.	3
EDFE 205	First Field Experience (Music).	2
EDFE 208	Second Field Experience (Music).	3
EDFE 308	Third Field Experience (Music).	8
EDFE 407	Fourth Field Experience (Music).	7
EDPE 300	Educational Psychology.	3
EDPI 341	Instruction in Inclusive Schools.	3

Required Indigenous Studies Course

Expand allContract all

Course	Title	Credits
EDEC 233	Indigenous Education.	3

or any other course with Indigenous Studies content approved by the Faculty of Education.

Complementary Courses - Education Components (6 credits)

Complementary Courses - Education Components

3 credits from:

Music Education Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The Minor in Music Education is available to all students, with the exception of students in the concurrent B.Mus.; Major in Music Education/B.Ed.; Major in Music Elementary and Secondary program, subject to the approval of the Schulich School of Music. This Minor will take the place of free electives. The Minor Music Education has limited enrolment. Students must choose complementary courses from one of the three available streams.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
MUGT 401	Issues in Music Education.	3

Complementary Courses (15 credits)

6 credits selected from:

Course	Title	Credits
MUCT 235	Vocal Techniques.	3
MUCT 315	Choral Conducting 1.	3
MUGT 205	Psychology of Music.	3
MUGT 354	Music for Children.	3
MUGT 355	Music in Early Childhood.	3
MUGT 358	General Music for Adults and Teenagers.	3
MUIT 201	String Techniques.	3
MUIT 202	Woodwind Techniques.	3
MUIT 203	Brass Techniques.	3
MUIT 204	Percussion Techniques.	3
MUIT 250	Guitar Techniques.	3
MUIT 302	Advanced Wind Techniques.	3

MUIT 315	Instrumental Conducting.	3
MUIT 356	Jazz Instruction: Philosophy and Techniques.	3

9 credits selected from undergraduate-level courses with a prefix of MUCT, MUGT, MUIT.

Music Entrepreneurship Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

This Minor is a collaboration between the Schulich School of Music and Desautels Faculty of Management. It is designed to provide music students with an understanding of how to conceptualize, develop, and manage successful new ventures; manage their careers as performers, music teachers and arts administrators; and develop skills in marketing, fundraising, publicizing, and financing. The program covers the essentials of management and is multidisciplinary and integrative.

This Minor is restricted to B.Mus. students who have completed one year of studies and have a minimum CGPA of 3.0. The minor has limited enrolment; interested students should contact the Music Research Department to apply for admission. Students in this Minor are not permitted to take the Desautels Minors in Management, Marketing, Finance or Operations Management (for Non-Management Students).

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
MGPO 362	Fundamentals of Entrepreneurship.	3
MUPD 350	Applied Projects for Musicians.	3

Complementary Courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

3-6 credits chosen from the following:

Course	Title	Credits
MUMT 301	Music and the Internet.	3
MUPD 200	Introduction to Music Marketing.	3
MUPD 201	Business Fundamentals for Musicians.	3
MUPD 475	Special Project: Professional Development ¹ .	3
MUSR 200	Audio Recording Essentials.	3
MUSR 201	Audio Production Essentials.	3

¹ To be counted towards the Minor in Music Entrepreneurship, the internship placement or project must be approved as having an entrepreneurial focus.

0-3 credits chosen from the following:

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
MGPO 364	Entrepreneurship in Practice.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
PSYC 471	Human Motivation.	3

Music History Major (B.Mus.) (124 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 124

Program Description

The Bachelor of Music (B.Mus.); Major in Music History requires 124 credits. This program focuses on the place of music in different cultural contexts, the social conditions of musicians, the evolution of performing styles, and the different ways music can project meaning and reflect identity, including the parameters of different musical styles and musical syntax. Exposure to a wide variety of repertoire in the Western classical tradition as well as to jazz and popular idioms.

Music History provides excellent preparation not only for graduate study in musicology, but also for a considerable range of professional training programs including journalism, information sciences, arts administration, and teaching.

The Bachelor of Music (B.Mus.); Major in Music History program requires 92 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (23 credits)

History

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Theory

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Performance

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Music Professional Development

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (36 credits)

History

27 credits selected from Group I, II, and III, with a minimum of 6 credits from each group.

Group I

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUHL 377	Baroque Opera.	3
MUHL 380	Medieval Music.	3
MUHL 381	Renaissance Music.	3
MUHL 382	Baroque Music.	3
MUHL 383	Classical Music.	3
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUPP 381	Topics in Performance Practice.	3
MUTH 426	Topics in Early Music Analysis.	3

Group II

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUHL 366	The Era of the Fortepiano.	3
MUHL 384	Romantic Music.	3
MUHL 385	Early Twentieth-Century Music.	3
MUHL 387	Opera from Mozart to Puccini.	3
MUHL 388	Opera After 1900.	3
MUHL 389	Orchestral Literature.	3
MUHL 390	The German Lied.	3
MUHL 391	Canadian Music.	3
MUHL 392	Music since 1945.	3
MUHL 396	Era of the Modern Piano.	3

Group III

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUHL 314	Women in Music: A Cross-Cultural Perspective.	3
MUHL 330	Music and Film.	3
MUHL 362	Popular Music.	3
MUHL 370	History of Recorded Music.	3
MUHL 375	Introduction to Ethnomusicology.	3
MUHL 393	History of Jazz.	3
MUHL 529	Proseminar in Musicology.	3
MUHL 592	Popular Music Studies.	3

Theory

3 credits from courses with a prefix of MUTH at the 200 or 300 level.

Musicianship

2 credits from:

Expand all		Contract all	
Course	Title	Credits	
MUSP 324	Musicianship for Strings.	2	
MUSP 346	Post-Tonal Musicianship.	2	
MUSP 353	Musicianship for Voice.	2	
MUSP 354	Introduction to Improvisation and Ornamentation.	2	
MUSP 355	Musicianship for Percussion.	2	
MUSP 361	Topics in Musicianship.	2	
MUSP 363	Topics in Global Musicianship.	2	
MUSP 381	Singing Renaissance Notation.	2	

Performance

Basic Ensemble

4 credits from:

Expand all		Contract all	
Course	Title	Credits	
MUEN 563	Jazz Vocal Workshop.	2	
MUEN 572	Cappella Antica.	2	
MUEN 573	Baroque Orchestra.	2	
MUEN 587	Cappella McGill.	2	
MUEN 590	McGill Wind Orchestra.	2	
MUEN 592	Chamber Jazz Ensemble.	2	
MUEN 593	Choral Ensembles.	2	
MUEN 594	Contemporary Music Ensemble.	2	
MUEN 595	Jazz Ensembles.	2	
MUEN 597	McGill Symphony Orchestra.	2	

Elective Courses (33 credits)

9 credits of non-Music courses.

24 credits of courses to be chosen freely (excluding those with MUAR prefix)

Music History Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The Minor Music History is available to all students (with the exception of students in the Major in Music History program). This option will take the place of music electives and/or free electives, as well as history, literature, and performance practice complementary courses.

Complementary Courses

Music History

18 credits selected from MUHL or MUPP prefix at the 300 level or higher.

Musical Applications of Technology Minor (B.Mus.) (18 credits)

Offered by: Music (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The goal of this Minor is to provide instruction in practical and creative applications of technology for musical purposes. This program will help prepare students for production-oriented jobs in the creative arts.

This program is open to students from any discipline and has no prerequisites other than familiarity with computers. Applications will only be considered for fall admission. Late applications will not be accepted and no students will be admitted to the Minor in January. Registration will be limited to available lab space. To apply, submit an online application through the Music website: www.mcgill.ca/music/programs/minor/mat.

Students will be selected on the basis of their previous background or experience in music technology and/or sound recording, their computer programming skills, their expressed interest in the program, and their Cumulative Grade Point Average.

Advising for the Minor is available from the Area Chair for the Music Technology Program. Further information on this program is available on the Music Technology website at: http://www.music.mcgill.ca/musictech/programmes_and_admissions.

Required Courses (12 credits)

Expand all

Contract all			Credits
Course	Title	Credits	
MUMT 202	Fundamentals of New Media.	3	
MUMT 250	Music Perception and Cognition.	3	
MUMT 302	New Media Production 1.	3	
PHYS 224	Physics of Music.	3	

Complementary Courses (6 credits)

6 credits selected from:

Expand all

Contract all			Credits
Course	Title	Credits	
MUMT 301	Music and the Internet.	3	
MUPD 204	Production for Digital Media 1.	3	
MUSR 200	Audio Recording Essentials.	3	
MUSR 232	Introduction to Electronics.	3	
MUSR 300D1	Introduction to Music Recording. ¹	3	

MUSR 300D2	Introduction to Music Recording. ¹	3	Course	Title	Credits
MUSR 339	Introduction to Electroacoustics.	3	MUMT 502	Senior Project: Music Technology.	3

¹ MUSR 300D1 Introduction to Music Recording./MUSR 300D2 Introduction to Music Recording. has limited enrollment and should be selected together. This course is generally restricted to students in the Sound Recording Qualifying Year program. Students interested in taking this course should contact the Sound Recording Area Coordinator to seek permission to register.

Musical Science and Technology Minor (B.Mus.) (18 credits)

Offered by: Music (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

This Minor focuses on interdisciplinary topics in science and technology as applied to music. The goal of the program is to help prepare students for commercial jobs in the audio technology sector and/or for subsequent graduate research study. This Minor is designed to serve students who already have a good background in the sciences and prior experience with Math and Computer Science courses.

Applications will only be considered for fall admission. Late applications will not be accepted and no students will be admitted to the Minor in January. Registration will be limited to available lab space. Selection is based on previous experience in math, computer programming, and related sciences, expressed interest in the program, and Cumulative Grade Point Average. To apply, submit an online application through the Music website: www.mcgill.ca/music/programs/minor/mst.

Advising for the Minor is available from the Area Chair for the Music Technology program. Further information on this program is available on the Music Technology website at: http://www.music.mcgill.ca/musictech/programmes_and_admissions.

Required Courses (15 credits)

15 credits, select all of the following:

Expand allContract all		Expand allContract all		Credits
Course	Title	Course	Title	Credits
MUMT 203	Introduction to Digital Audio.	3	MUHL 186	Western Musical Traditions.
MUMT 250	Music Perception and Cognition.	3	MUIN 180	BMus Practical Lessons 1.
MUMT 306	Music and Audio Computing 1.	3	MUIN 181	BMus Practical Lessons 2.
MUMT 307	Music and Audio Computing 2.	3	MUPD 135	Music as a Profession 1.
MUMT 501	Digital Audio Signal Processing.	3	MUSP 140	Musicianship Training 1.
			MUSP 141	Musicianship Training 2.
			MUSP 170	Musicianship (Keyboard) 1.
			MUSP 171	Musicianship (Keyboard) 2.
			MUTH 150	Theory and Analysis 1.
			MUTH 151	Theory and Analysis 2.

Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Theory Major (B.Mus.) (124 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 124

Program Description

The Bachelor of Music (B.Mus.); Major Theory program requires 124 credits and features coursework centered in the development of models and methods of musical languages. How specific pieces of music are put together and how this may be generalized to relate to the way other pieces of music are composed. Theory incorporates a combination of writing skills and analysis. Specialization in such subjects as the application of mathematical models to music analysis and Renaissance-style counterpoint.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensembles

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, select all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (25 credits)

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2
MUSP 346	Post-Tonal Musicianship.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 283	BMus Concentration Final Examination.	1

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (40 credits)

Theory

6 credits selected from:

Expand allContract all

Course	Title	Credits
MUTH 202	Modal Counterpoint 1.	3
MUTH 204	Tonal Counterpoint 1.	3
MUTH 302	Modal Counterpoint 2.	3
MUTH 304	Tonal Counterpoint 2.	3

6 credits selected from:

Expand allContract all

Course	Title	Credits
MUTH 321	Topics in Tonal Analysis.	3
MUTH 322	Topics in Post-Tonal Analysis.	3

MUTH 426	Topics in Early Music Analysis.	3
MUTH 541	Topics in Popular Music Analysis.	3

6 credits selected from:

Course	Title	Credits
MUTH 526	Methods in Tonal Theory and Analysis.	3
MUTH 528	Schenkerian Theory and Analysis.	3
MUTH 529	Proseminar in Music Theory.	3
MUTH 538	Mathematical Models for Musical Analysis.	3

12 credits selected from courses not taken above and the following:

Course	Title	Credits
MUCO 575	Topics in Composition.	3
MUTH 539	Topics in Advanced Writing Techniques.	3

Music History

6 credits from courses with a prefix of MUHL or MUPP.

Performance

4 credits selected from:

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Elective Courses (27 credits)

9 credits of non-Music Electives.

18 credits of free Electives.

Music Theory Minor (B.Mus.) (18 credits)

Offered by: Music Research (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The Minor in Music Theory is available to all students, with the exception of students in the Major Theory, subject to approval of the

Schulich School of Music. This Minor will take the place of free electives in Music programs.

Complementary Courses (18 credits)

18 credits from the following:

Expand allContract all

Course	Title	Credits
MUCO 575	Topics in Composition.	3
MUJZ 260	Jazz Arranging 1.	3
MUJZ 261	Jazz Arranging 2.	3
MUMT 250	Music Perception and Cognition.	3
MUTH 202	Modal Counterpoint 1.	3
MUTH 204	Tonal Counterpoint 1.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 302	Modal Counterpoint 2.	3
MUTH 304	Tonal Counterpoint 2.	3
MUTH 321	Topics in Tonal Analysis.	3
MUTH 322	Topics in Post-Tonal Analysis.	3
MUTH 350	Theory and Analysis 5.	3
MUTH 426	Topics in Early Music Analysis.	3
MUTH 526	Methods in Tonal Theory and Analysis.	3
MUTH 528	Schenkerian Theory and Analysis.	3
MUTH 529	Proseminar in Music Theory.	3
MUTH 538	Mathematical Models for Musical Analysis.	3
MUTH 539	Topics in Advanced Writing Techniques.	3
MUTH 541	Topics in Popular Music Analysis.	3

Performance Piano Major (B.Mus.) (125 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 125

Program Description

The Bachelor of Music; Major Performance (Piano) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction and participate in large and small ensembles.

The Bachelor of Music (B.Mus.) - Major Performance (Piano) program requires 91 credits (plus 34 credits for the freshman requirement for out-of-province students).

Special Requirements

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests, and equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from MUSP 170 Musicianship (Keyboard) 1. and MUSP 171 Musicianship (Keyboard) 2.; see section on Keyboard Proficiency testing for complete information.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (45 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 333	Piano Techniques 2.	0
MUIN 369	Concerto.	0
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 433	Piano Techniques 3.	0
MUIN 480	BMus Practical Lessons 7.	2

MUIN 481	BMus Practical Lessons 8.	2	MUEN 595	Jazz Ensembles.	2	
MUIN 482	BMus Performance Examination 3.	2	MUEN 597	McGill Symphony Orchestra.	2	
MUPG 350	Introduction to Piano Pedagogy.	2	¹ 4 credits from:			
MUPG 356	Piano Repertoire Studies 1.	2	¹ All ensembles courses under MUEN may be taken in multiple terms.			
MUPG 357	Piano Repertoire Studies 2.	2				
MUPG 541	Senior Piano Seminar 1.	2				
MUPG 542	Senior Piano Seminar 2.	2				

Theory

Expand allContract all

Course	Title	Credits	Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3	MUEN 556	Introduction to Collaborative Piano 1.	1
MUTH 251	Theory and Analysis 4.	3	MUEN 557	Introduction to Collaborative Piano 2.	1
MUTH 350	Theory and Analysis 5.	3	MUEN 560	Chamber Music Ensemble.	1

Musicianship

Expand allContract all

Course	Title	Credits	Course	Title	Credits
MUSP 240	Musicianship Training 3.	2	MUEN 569	Tabla Ensemble.	1
MUSP 241	Musicianship Training 4.	2	MUEN 578	Song Interpretation 1.	1

Music History

Expand allContract all

Course	Title	Credits	Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3	MUEN 579	Song Interpretation 2.	1

Professional Development

Expand allContract all

Course	Title	Credits	Course	Title	Credits
MUPD 235	Music as a Profession 2.	1	MUSP 346	Post-Tonal Musicianship.	2

Complementary Courses (20 credits)

Performance

Large Ensemble during the first four terms (2 credits x 4 semesters).

¹
8 credits from:

¹ All ensembles courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits	Course	Title	Credits	
MUEN 563	Jazz Vocal Workshop.	2	MUEN 590	McGill Wind Orchestra.	2	
MUEN 572	Cappella Antica.	2	MUEN 592	Chamber Jazz Ensemble.	2	
MUEN 587	Cappella McGill.	2	MUEN 593	Choral Ensembles.	2	
MUEN 594	Contemporary Music Ensemble.	2	Offered by: Performance (Schulich School of Music) Degree: Bachelor of Music Program credit weight: 123			

Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 355	Musicianship for Percussion.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2

Music History/Literature/Performance Practice (6 credits)

Selected from courses with a prefix of MUHL or MUPP at the 300-level or above.

3 credits from courses with a MUHL or MUPP prefix

Elective Courses (26 credits)

3 credits of Non-Music Electives

23 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Performance Voice Major (B.Mus.) (123 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 123

Program Description

The Bachelor of Music; Major Performance (Voice) program focuses on vocal pedagogy, repertoire coaching, linguist, theory, and musicology to strengthen artistry in professional singing. In addition to recitals and masterclasses, students are encouraged to take advantage of diverse solo performance opportunities in Opera, Early Music Ensembles, Song Interpretation, a comprehensive Choral Program, the annual McGill Concerto and Wirth Vocal Competitions, and outside venues in Montreal.

The Bachelor of Music (B.Mus.) - Major Performance (Voice) program requires 91 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Special Requirements

Continuation in the program requires a minimum grade of B- in practical instruction/exams, ensembles, and voice coaching.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (44 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5

MUIN 282	BMus Performance Examination 1.	1
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Diction

Expand allContract all

Course	Title	Credits
MUPG 209	Introduction to Lyric Diction.	1
MUPG 210	Italian Diction.	2
MUPG 211	French Diction.	2
MUPG 212	English Diction.	2
MUPG 213	German Diction.	2

Prior to, or concurrent with registration in the corresponding Diction courses, the Voice Major must furnish evidence of having completed English Second Language courses, ITAL 205D1 Italian for Beginners./ITAL 205D2 Italian for Beginners., GERM 202 German Language, Beginners', or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements or by extra university courses.

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History/Literature

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (27 credits)

Performance

10 credits of complementary performance selected from:

- ¹ All ensemble courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits
MUEN 454	Introductory Opera Repertoire Experience.	2
MUEN 496	Opera Studio.	2
MUEN 563	Jazz Vocal Workshop.	2
MUEN 569	Tabla Ensemble.	1
MUEN 572	Cappella Antica.	2
MUEN 578	Song Interpretation 1.	1
MUEN 579	Song Interpretation 2.	1
MUEN 580	Early Music Ensemble.	1
MUEN 587	Cappella McGill.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2

9 credits of complementary performance selected from:

Expand allContract all

Course	Title	Credits
MUIN 300	Voice Coaching 1.	2
MUIN 301	Voice Coaching 2.	2
MUPG 296	Acting for Voice.	1
MUPG 297	Movement for Voice.	1
MUPG 300	Music Performance Strategies.	3
MUPG 309	Advanced Diction.	1
MUPG 353	Song Repertoire Class.	2
MUPG 380	Oratorio Class.	2
MUPG 453	Contemporary Repertoire for Voice.	2

MUEN courses at the 400 or 500 level (maximum 4 credits)

Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 361	Topics in Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Music History/Literature/Performance Practice

6 credits from:

Expand allContract all

Course	Title	Credits
MUHL 377	Baroque Opera.	3
MUHL 387	Opera from Mozart to Puccini.	3
MUHL 388	Opera After 1900.	3
MUHL 390	The German Lied.	3

Elective Courses (20 credits)

3 credits of non-Music Electives

17 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Performance (Orchestral Instruments) Major (B.Mus.) (125 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 125

Program Description

The Bachelor of Music; Major Performance (Orchestral Instruments) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction, participate in chamber music and other small ensembles, and perform in large ensembles such as the McGill Symphony Orchestra, Contemporary Music Ensemble, and Wind Orchestra.

The Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) program requires 91 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements

- Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.
- Students majoring in violin, viola, or cello must commence basic ensemble training with two terms of MUEN 565 String Quartet Seminar.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (35 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (33 credits)

Performance

¹ 12 credits (2 credits per term; as assigned by audition) from Large ensembles:

¹ All ensemble courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 565	String Quartet Seminar.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

¹ 4 credits (1 credit per term; as assigned by audition) from small ensembles:

¹ All ensemble courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 569	Tabla Ensemble.	1
MUEN 580	Early Music Ensemble.	1
MUEN 598	Percussion Ensembles.	1

9 credits chosen from:

MUEN courses at the 400 or 500 level (maximum of 4 credits)

Expand allContract all

Course	Title	Credits
MUIN 269	Classical Concerto Exam.	1
MUPG 229	Traditional Drumming 1: Rudiments.	1
MUPG 300	Music Performance Strategies.	3

MUPG 325	Improvisation for String Players.	2
MUPG 326	Introduction to String Pedagogy.	2
MUPG 328	Introduction to Percussion Pedagogy.	1
MUPG 329	Traditional Drumming 2: Hand Drumming.	1
MUPG 331	Introduction to Woodwind Pedagogy.	2
MUPG 336	Introduction to Brass Pedagogy.	2
MUPG 410	Violin Orchestral Excerpts.	1
MUPG 411	Viola Orchestral Excerpts.	1
MUPG 412	Cello Orchestral Excerpts.	1
MUPG 413	Double Bass Orchestral Excerpts.	1
MUPG 414	Woodwinds Orchestral Excerpts.	1
MUPG 415	Brass Orchestral Excerpts.	1
MUPG 416	Percussion Orchestral Excerpts.	1
MUPG 425	Extended Techniques - Strings.	2
MUPG 429	Percussion Seminar.	2
MUPG 431	Extended Techniques - Woodwinds.	2
MUPG 435	Extended Techniques - Brass.	2
MUPG 473	Special Project in Performance.	1
MUPG 474	Special Project in Performance.	2
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

(Percussionists must include MUEN 569 Tabla Ensemble., MUPG 328 Introduction to Percussion Pedagogy., MUPG 329 Traditional Drumming 2: Hand Drumming.)

Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2
MUSP 355	Musicianship for Percussion.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2

Music History/Literature/Performance Practice

6 credits of courses with a MUHL or MUPP prefix

Percussionists must include:

Expand allContract all

Course	Title	Credits
MUHL 392	Music since 1945.	3

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Early Music Performance Major (Baroque Violin, Viola, Cello, Viola da Gamba, Flute, Recorder, Oboe, Organ, Harpsichord and Early Brass Instruments) (B.Mus.) (125 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 125

Program Description

The Bachelor of Music; Major Early Music Performance program provides comprehensive training in historical performance practice and in performance on a period instrument. The program combines individual lessons and ensembles with the study of historical approaches to performance in its various activities - workshops, master classes, guest lectures, and research projects.

The Bachelor of Music (B.Mus.); Major Early Music Performance program requires 91 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3

MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Complementary Courses (27 credits)

Performance

12 credits (2 credits per term; as assigned by audition) from large ensembles:

¹ All ensemble courses under MUEN may be taken in multiple terms.

Required Courses (41 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

¹ 4 credits (1 credit per term)

¹ All ensemble courses under MUEN may be taken in multiple terms.

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3
MUTH 426	Topics in Early Music Analysis.	3

Expand allContract all

Course	Title	Credits
MUEN 569	Tabla Ensemble.	1
MUEN 580	Early Music Ensemble.	1

6 credits from:

Baroque Instruments

MUEN prefix - maximum 4 credits

Expand allContract all

Course	Title	Credits
MUPG 473	Special Project in Performance.	1
MUPG 474	Special Project in Performance.	2
MUPG 475	Special Project in Performance.	3

OR

Harpsichord

Expand allContract all

Course	Title	Credits
MUPG 272D1	Continuo.	2
MUPG 272D2	Continuo.	2
MUPG 372D1	Continuo.	1
MUPG 372D2	Continuo.	1

OR

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Organ

MUEN prefix - maximum 2 credits

Expand allContract all

Course	Title	Credits
MUPG 272D1	Continuo.	2
MUPG 272D2	Continuo.	2
MUPG 473	Special Project in Performance.	1
MUPG 474	Special Project in Performance.	2

Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 346	Post-Tonal Musicianship.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

History/Literature/Performance Practice

3 credits from:

Expand allContract all

Course	Title	Credits
MUHL 377	Baroque Opera.	3
MUHL 380	Medieval Music.	3
MUHL 381	Renaissance Music.	3
MUHL 382	Baroque Music.	3
MUHL 383	Classical Music.	3
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Early Music Performance Major (Voice) (B.Mus.) (126 credits)**Offered by:** Performance (Schulich School of Music)**Degree:** Bachelor of Music**Program credit weight:** 126**Program Description**

The Bachelor of Music; Major Early Music Performance (Voice) program provides comprehensive training in historical performance practice and in singing period repertoire. The program combines individual lessons and ensembles with the study of historical

approaches to performance in its various activities - workshops, master classes, guest lectures, and research projects.

The Bachelor of Music (B.Mus.); Major Early Music Performance (Voice) program requires 92 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements

- Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

- 22 credits of Prerequisite Courses
- 2 credits of Assigned Small Ensemble
- 4 credits of Large Ensemble
- 6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (54 credits)**Performance**

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 300	Voice Coaching 1.	2
MUIN 301	Voice Coaching 2.	2
MUIN 380	BMus Practical Lessons 5.	2.5

MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Diction

Expand allContract all

Course	Title	Credits
MUPG 209	Introduction to Lyric Diction.	1
MUPG 210	Italian Diction.	2
MUPG 211	French Diction.	2
MUPG 212	English Diction.	2
MUPG 213	German Diction.	2

Prior to, or concurrent with registration in the corresponding Diction courses, the Bachelor of Music; Major Early Music Performance (Voice) must furnish evidence of having completed English Second Language courses, ITAL 205D1 Italian for Beginners./ITAL 205D2 Italian for Beginners., GERM 202 German Language, Beginners', or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements above, or by extra university courses.

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3
MUTH 426	Topics in Early Music Analysis.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History/Literature/Performance Practice

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3
MUPP 381	Topics in Performance Practice.	3

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (15 credits)

Performance

10 credits of complementary performance selected from:

¹ All ensemble courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits
MUEN 454	Introductory Opera Repertoire Experience.	2
MUEN 496	Opera Studio.	2
MUEN 553	Vocal Chamber Ensemble.	1
MUEN 563	Jazz Vocal Workshop.	2
MUEN 569	Tabla Ensemble.	1
MUEN 572	Cappella Antica.	2
MUEN 578	Song Interpretation 1.	1
MUEN 579	Song Interpretation 2.	1
MUEN 580	Early Music Ensemble.	1
MUEN 587	Cappella McGill.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2

Musicianship

2 credits from:

Course	Title	Credits
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Music History

3 credits from:

Course	Title	Credits
MUHL 377	Baroque Opera.	3
MUHL 380	Medieval Music.	3
MUHL 381	Renaissance Music.	3
MUHL 382	Baroque Music.	3
MUHL 383	Classical Music.	3
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Performance Jazz Major (B.Mus.) (126 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 126

Program Description

The Bachelor of Music; Major in Performance Jazz provides comprehensive training for jazz musicians. The curriculum includes jazz theory and harmony, keyboard, history, performance practice, improvisation, composition, and arranging. Throughout the program, students receive individual instruction and participate in jazz orchestras, ensembles, and combos.

Special Requirements

- Students majoring in Jazz Performance must achieve a minimum grade of B- in all Jazz courses and Practical Instruction/Exams, including Jazz Combo and Ensembles.
- Students are permitted to study with the same teacher for the assigned practical instruction for a maximum of two consecutive years.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of MUEN 570 Jazz Combo.

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests, or equivalencies that they have mastered the material in any of the courses listed below, will be exempt from them and may proceed to more advanced courses.

Incoming jazz guitarists and pianists are automatically exempt from MUJZ 170 Jazz Keyboard Proficiency 1. and MUJZ 171 Jazz Keyboard Proficiency 2..

Expand allContract all

Course	Title	Credits
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUJZ 160	Jazz Materials 1.	3

MUJZ 161	Jazz Materials 2.	3
MUJZ 170	Jazz Keyboard Proficiency 1.	1
MUJZ 171	Jazz Keyboard Proficiency 2.	1
MUJZ 187	Jazz History Survey.	3
MUPD 135	Music as a Profession 1.	1
MUSP 123	Jazz Ear Training 1.	2
MUSP 124	Jazz Ear Training 2.	2

Required Courses (53 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Small Ensemble

Expand allContract all

Course	Title	Credits
MUEN 570	Jazz Combo. ¹	1

¹ This course is taken in four semesters for 4 credits.

Jazz Improvisation

Instrumental Majors

Expand allContract all

Course	Title	Credits
MUJZ 223	Jazz Improvisation/Musicianship 1.	3
MUJZ 224	Jazz Improvisation/Musicianship 2.	3
MUJZ 423	Jazz Improvisation/Musicianship 3.	3
MUJZ 424	Jazz Improvisation/Musicianship 4.	3

OR

Vocal Majors

Expand allContract all

Course	Title	Credits
MUJZ 225	Jazz Vocal Improvisation 1.	3
MUJZ 226	Jazz Vocal Improvisation 2.	3
MUJZ 325	Jazz Vocal Improvisation 3.	3
MUJZ 326	Jazz Vocal Improvisation 4.	3

Jazz Theory

Expand allContract all

Course	Title	Credits	MUEN 594	Contemporary Music Ensemble.	2
MUJZ 260	Jazz Arranging 1.	3	MUEN 595	Jazz Ensembles.	2
MUJZ 261	Jazz Arranging 2.	3	MUEN 597	McGill Symphony Orchestra.	2
MUJZ 340	Jazz Composition 1.	3			
MUJZ 341	Jazz Composition 2.	3			

History/Literature/Performance Practice

Expand allContract all

Course	Title	Credits	MUJZ 440	Advanced Jazz Composition 1.	2
MUHL 286	Critical Thinking About Music.	3	MUJZ 441	Advanced Jazz Composition 2.	2
MUJZ 493	Jazz Performance Practice.	3	MUJZ 461D1	Advanced Jazz Arranging.	2
			MUJZ 461D2	Advanced Jazz Arranging.	2

Professional Development

Expand allContract all

Course	Title	Credits	MUJZ 440	Advanced Jazz Composition 1.	2
MUPD 235	Music as a Profession 2.	1	MUJZ 441	Advanced Jazz Composition 2.	2
			MUJZ 461D1	Advanced Jazz Arranging.	2
			MUJZ 461D2	Advanced Jazz Arranging.	2

Complementary Courses (14-18 credits)

Performance

Small Ensemble

Expand allContract all

Course	Title	Credits	MUJZ 425	Jazz Vocal Repertoire 1.	2
MUEN 570	Jazz Combo. ¹	1	MUJZ 426	Jazz Vocal Repertoire 2.	2

¹ Taken in two semesters for 2 credits.

OR

Expand allContract all

Course	Title	Credits	MUJZ 425	Jazz Vocal Repertoire 1.	2
MUEN 574	Afro-Cuban/Brazilian Jazz Combo.	1	MUJZ 426	Jazz Vocal Repertoire 2.	2

¹ Taken in two semesters for 2 credits.

Large Ensemble

Note: students playing Rhythm Section instruments (piano, guitar, bass, drums, vibraphone) can substitute 4 credits of large ensemble with free electives).

8-12 credits from :

¹ All ensemble courses under MUEN may be taken in multiple terms.

Expand allContract all

Course	Title	Credits	MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2	MUEN 573	Baroque Orchestra.	2
MUEN 573	Baroque Orchestra.	2	MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2	MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2			

Advanced Jazz

Instrumental Majors

4 credits from either 4 credits from either MUJZ 440 Advanced Jazz Composition 1. and MUJZ 441 Advanced Jazz Composition 2., or MUJZ 461D1 Advanced Jazz Arranging./MUJZ 461D2 Advanced Jazz Arranging.:

Expand allContract all

Course	Title	Credits
MUJZ 440	Advanced Jazz Composition 1.	2
MUJZ 441	Advanced Jazz Composition 2.	2
MUJZ 461D1	Advanced Jazz Arranging.	2
MUJZ 461D2	Advanced Jazz Arranging.	2

OR

Vocal Majors

Expand allContract all

Course	Title	Credits
MUJZ 425	Jazz Vocal Repertoire 1.	2
MUJZ 426	Jazz Vocal Repertoire 2.	2

Elective Courses (21-25 credits)

3 credits of non-Music Electives.

18-22 credits of Free Electives (may not include courses with a MUEN prefix); students playing Rhythm Section instruments may take up to 22 Free Electives.

Performance (Organ and Guitar) Major (B.Mus.) (125 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 125

Program Description

The Bachelor of Music; Major Performance (Organ and Guitar) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction and participate in small and large ensembles as appropriate to their area of specialization.

Special Requirements

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Advisor:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from MUSP 170 Musicianship (Keyboard) 1. (but not from MUSP 171 Musicianship (Keyboard) 2.); see section on Keyboard Proficiency testing for complete information.

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUIN 180	BMus Practical Lessons 1.	3
MUIN 181	BMus Practical Lessons 2.	3
MUPD 135	Music as a Profession 1.	1
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3

Required Courses (35 credits)

Performance

Expand allContract all

Course	Title	Credits
MUIN 280	BMus Practical Lessons 3.	2.5
MUIN 281	BMus Practical Lessons 4.	2.5
MUIN 282	BMus Performance Examination 1.	1
MUIN 380	BMus Practical Lessons 5.	2.5
MUIN 381	BMus Practical Lessons 6.	2.5
MUIN 382	BMus Performance Examination 2.	1
MUIN 480	BMus Practical Lessons 7.	2
MUIN 481	BMus Practical Lessons 8.	2
MUIN 482	BMus Performance Examination 3.	2

Theory

Expand allContract all

Course	Title	Credits
MUTH 250	Theory and Analysis 3.	3
MUTH 251	Theory and Analysis 4.	3
MUTH 350	Theory and Analysis 5.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2

Music History

Expand allContract all

Course	Title	Credits
MUHL 286	Critical Thinking About Music.	3

Professional Development

Expand allContract all

Course	Title	Credits
MUPD 235	Music as a Profession 2.	1

Complementary Courses (24 credits)

Performance

12 credits* (2 credits per term; as assigned by audition) from large ensembles:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 565	String Quartet Seminar.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

4 credits* (1 credit per term) from:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 562	Guitar Ensemble.	1

Course	Title	Credits
MUEN 569	Tabla Ensemble.	1
MUEN 580	Early Music Ensemble.	1

*All ensemble courses under MUEN may be taken in multiple terms.

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 361	Topics in Musicianship.	2
MUSP 363	Topics in Global Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Music History/Literature/Performance Practice

6 credits of courses with a MUHL or MUPP prefix

Elective Courses (32 credits)

9 credits of Music Electives; Organ majors must include the following:

Expand allContract all

Course	Title	Credits
MUPG 272D1	Continuo.	2
MUPG 272D2	Continuo.	2

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

Conducting Minor (B.Mus.) (18 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The B.Mus. Minor in Conducting contains two streams—orchestral conducting and choral conducting—which offer students an opportunity to develop technical skills in orchestral or choral conducting and rehearsal techniques. Students are admitted by audition and upon successful completion of the conducting entrance exam for the Minor. Enrolment is limited and is not open to UO students.

Required Course (4 credits)

Expand allContract all

Course	Title	Credits
MUIN 384	Conducting Minor Project.	1

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 580	Rehearsal Techniques for Conductors.	1.5

Complementary Courses (14 credits)

14 credits from one of the two streams

Orchestral Stream

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 315D1	Introduction to Orchestral Conducting.	2
MUPG 315D2	Introduction to Orchestral Conducting.	2

Large Ensembles

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 573	Baroque Orchestra.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

6 credits from the following:

Expand allContract all

Course	Title	Credits
MUCO 261	Orchestration 1.	3
MUCO 360	Orchestration 2.	3
MUHL 383	Classical Music.	3
MUHL 384	Romantic Music.	3
MUHL 385	Early Twentieth-Century Music.	3
MUHL 387	Opera from Mozart to Puccini.	3
MUHL 388	Opera After 1900.	3
MUHL 391	Canadian Music.	3
MUHL 392	Music since 1945.	3

Choral Stream

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 316D1	Introduction to Choral Conducting.	2
MUPG 316D2	Introduction to Choral Conducting.	2

Large Ensembles

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 593	Choral Ensembles.	2

6 credits from the following:

Expand allContract all		
Course	Title	Credits
MUCO 261	Orchestration 1.	3
MUCT 235	Vocal Techniques.	3
MUHL 377	Baroque Opera.	3
MUHL 380	Medieval Music.	3
MUHL 381	Renaissance Music.	3
MUHL 382	Baroque Music.	3
MUHL 383	Classical Music.	3
MUHL 384	Romantic Music.	3
MUHL 385	Early Twentieth-Century Music.	3
MUHL 387	Opera from Mozart to Puccini.	3
MUHL 388	Opera After 1900.	3
MUHL 390	The German Lied.	3
MUHL 391	Canadian Music.	3
MUHL 392	Music since 1945.	3
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUPG 209	Introduction to Lyric Diction.	1
MUPG 210	Italian Diction.	2
MUPG 211	French Diction.	2
MUPG 212	English Diction.	2
MUPG 213	German Diction.	2
MUTH 202	Modal Counterpoint 1.	3
MUTH 204	Tonal Counterpoint 1.	3
MUTH 302	Modal Counterpoint 2.	3
MUTH 304	Tonal Counterpoint 2.	3

Course	Title	Credits
MUIN 272	Performance Minor Examination 1.	0
MUPP 381	Topics in Performance Practice.	3

Complementary Courses (15 credits)

6 credits from the following:

Expand allContract all		
Course	Title	Credits
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 580	Early Music Ensemble.	1
MUPD 560	Music Information and Research Skills.	1
MUPG 272D1	Continuo. ¹	2
MUPG 272D2	Continuo. ¹	2

¹ must be taken by Harpsichord students

3 credits from the following:

Expand allContract all		
Course	Title	Credits
MUHL 366	The Era of the Fortepiano.	3
MUHL 377	Baroque Opera.	3
MUHL 380	Medieval Music.	3
MUHL 381	Renaissance Music.	3
MUHL 382	Baroque Music.	3
MUHL 383	Classical Music.	3
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUTH 202	Modal Counterpoint 1.	3
MUTH 204	Tonal Counterpoint 1.	3
MUTH 302	Modal Counterpoint 2.	3
MUTH 304	Tonal Counterpoint 2.	3
MUTH 426	Topics in Early Music Analysis.	3

6 credits from the following (for Voice students only):

Expand allContract all		
Course	Title	Credits
MUIN 302	Early Music Minor Repertoire Coaching 1.	1.5
MUIN 303	Early Music Minor Repertoire Coaching 2.	1.5
MUIN 304	Early Music Minor Repertoire Coaching 3.	1.5
MUIN 305	Early Music Minor Repertoire Coaching 4.	1.5

OR

6 credits from the following (for Instrumental students only):

Expand allContract all

Early Music Performance Minor (B.Mus.) (18 credits)

Offered by: Performance (Schulich School of Music)

Degree: Bachelor of Music

Program credit weight: 18

Program Description

The Minor in Early Music Performance offers an opportunity for B.Mus. students to learn the elements of early music performance practice, and to play an early music instrument or to sing early music.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
MUIN 270	Practical Lessons Performance Minor 1.	3
MUIN 271	Practical Lessons Performance Minor 2.	3
MUIN 273	Practical Lessons Performance Minor 3.	1.5
MUIN 274	Practical Lessons Performance Minor 4.	1.5
MUIN 275	Practical Lessons Performance Minor 5.	1.5
MUIN 276	Practical Lessons Performance Minor 6.	1.5
MUIN 302	Early Music Minor Repertoire Coaching 1.	1.5
MUIN 303	Early Music Minor Repertoire Coaching 2.	1.5
MUIN 304	Early Music Minor Repertoire Coaching 3.	1.5
MUIN 305	Early Music Minor Repertoire Coaching 4.	1.5

Jazz Arranging and Composition Minor (B.Mus.) (18 credits)

Degree: Bachelor of Music
Program credit weight: 18

Program Description

The Minor in Jazz Arranging and Composition allows B.Mus. students who are not Jazz majors to explore the jazz idiom with an emphasis on arranging composition and jazz theory. In theory courses, students are trained in fundamental jazz materials, compose jazz tunes, and develop analytical skills; in arranging courses, they gain practical experience by writing for various small and large jazz ensembles; and in the jazz history course, they explore the repertoire and history of the jazz tradition. The program is aimed primarily at classical students who love jazz and who have already acquired facility with rudimentary classical materials.

Required Courses (18 credits)

Course	Title	Credits
MUJZ 160	Jazz Materials 1.	3
MUJZ 161	Jazz Materials 2.	3
MUJZ 187	Jazz History Survey.	3
MUJZ 260	Jazz Arranging 1.	3
MUJZ 261	Jazz Arranging 2.	3
MUJZ 262	Applied Jazz Theory.	3

Jazz Performance Minor (B.Mus.) (18 credits)

Offered by: Performance (Schulich School of Music)
Degree: Bachelor of Music
Program credit weight: 18

Program Description

The Minor in Jazz Performance offers students the opportunity to develop abilities in instrumental and vocal jazz through a combination of theoretical and practical courses.

Required Courses (18 credits)

Course	Title	Credits
MUEN 570	Jazz Combo. ¹	1
MUIN 273	Practical Lessons Performance Minor 3.	1.5
MUIN 274	Practical Lessons Performance Minor 4.	1.5
MUJZ 160	Jazz Materials 1.	3
MUJZ 161	Jazz Materials 2.	3
MUJZ 213	Fundamentals of Jazz Improvisation 1.	2
MUJZ 214	Fundamentals of Jazz Improvisation 2.	2
MUJZ 262	Applied Jazz Theory.	3

¹ 2 credits in MUEN 570 Jazz Combo..

Performance Piano Major (L.Mus.) (93 credits)

Offered by: Performance (Schulich School of Music)
Degree: Licentiate in Music
Program credit weight: 93

Program Description

The Licentiate in Music (L.Mus.) Major Performance Piano is a 93-credit program.

Special Requirements

- Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
- Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (52 credits)

Course	Title	Credits
MUIN 250	L.Mus. Practical Instruction 1.	6
MUIN 251	L.Mus. Practical Instruction 2.	6
MUIN 252	L.Mus. Performance 1 Examination.	4
MUIN 333	Piano Techniques 2.	0
MUIN 350	L.Mus. Practical Instruction 3.	6
MUIN 351	L.Mus. Practical Instruction 4.	6
MUIN 352	L.Mus. Performance 2 Examination.	4
MUIN 369	Concerto.	0
MUIN 433	Piano Techniques 3.	0

MUIN 450	L.Mus. Practical Instruction 5.	4
MUIN 451	L.Mus. Practical Instruction 6.	4
MUIN 452	L.Mus. Performance 3 Examination.	8
MUPG 541	Senior Piano Seminar 1.	2
MUPG 542	Senior Piano Seminar 2.	2

Complementary Performance (14 credits)

Large Ensemble – during the first four terms (2 credits x 4 semesters).

14 credits selected as follows:

8 credits from:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

6 credits from:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 556	Introduction to Collaborative Piano 1.	1
MUEN 557	Introduction to Collaborative Piano 2.	1
MUEN 560	Chamber Music Ensemble.	1
MUEN 578	Song Interpretation 1.	1
MUEN 579	Song Interpretation 2.	1
MUEN 581	Introduction to Ensemble Playing for Pianists.	1
MUEN 582	Piano Ensembles.	1
MUEN 584	Studio Accompanying.	1
MUEN 585	Sonata Masterclass.	1

Complementary Musicianship (2 credits)

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 346	Post-Tonal Musicianship.	2
MUSP 361	Topics in Musicianship.	2

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

Expand allContract all

Course	Title	Credits
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3
MUTH 250	Theory and Analysis 3.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2
MUSP 363	Topics in Global Musicianship.	2

History

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUHL 286	Critical Thinking About Music.	3

Performance Major (All Instruments except Piano, Voice and Jazz) (L.Mus.) (93 credits)

Offered by: Performance (Schulich School of Music)

Degree: Licentiate in Music

Program credit weight: 93

Program Description

The Licentiate in Music (L.Mus.) Major Performance in All Instruments except Piano, Voice, and Jazz is a 93-credit program.

Ensemble Requirements

1. Students majoring in violin, viola, or cello must commence their assigned ensembles with four terms of string quartets.
2. Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements

- Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
- Students must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

48 credits selected as follows:

Expand allContract all

Course	Title	Credits
MUIN 250	L.Mus. Practical Instruction 1.	6
MUIN 251	L.Mus. Practical Instruction 2.	6
MUIN 252	L.Mus. Performance 1 Examination.	4
MUIN 350	L.Mus. Practical Instruction 3.	6
MUIN 351	L.Mus. Practical Instruction 4.	6
MUIN 352	L.Mus. Performance 2 Examination.	4
MUIN 450	L.Mus. Practical Instruction 5.	4
MUIN 451	L.Mus. Practical Instruction 6.	4
MUIN 452	L.Mus. Performance 3 Examination.	8

Complementary Performance (18 credits)

Large Ensemble Training - during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 565	String Quartet Seminar.	2
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 587	Cappella McGill.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Assigned Small Ensemble - during every term of enrolment as a full-time or part-time student.

6 credits from:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 562	Guitar Ensemble.	1
MUEN 580	Early Music Ensemble.	1
MUEN 585	Sonata Masterclass.	1
MUEN 589	Woodwind Ensembles.	1
MUEN 591	Brass Consort.	1
MUEN 598	Percussion Ensembles.	1

Required Courses (25 credits)

25 credits of required courses selected as follows:

Theory

Expand allContract all

Course	Title	Credits
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3
MUTH 250	Theory and Analysis 3.	3

Musicianship

Expand allContract all

Course	Title	Credits
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2
MUSP 363	Topics in Global Musicianship.	2

History

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUHL 286	Critical Thinking About Music.	3

Complementary Musicianship

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 324	Musicianship for Strings.	2
MUSP 346	Post-Tonal Musicianship.	2

MUSP 354	Introduction to Improvisation and Ornamentation.	2	MUEN 573	Baroque Orchestra.	2
MUSP 355	Musicianship for Percussion.	2	MUEN 587	Cappella McGill.	2
MUSP 361	Topics in Musicianship.	2	MUEN 590	McGill Wind Orchestra.	2
MUSP 381	Singing Renaissance Notation.	2	MUEN 592	Chamber Jazz Ensemble.	2
			MUEN 593	Choral Ensembles.	2
			MUEN 594	Contemporary Music Ensemble.	2
			MUEN 595	Jazz Ensembles.	2
			MUEN 597	McGill Symphony Orchestra.	2

Performance Jazz Major (L.Mus.) (100 credits)

Offered by: Performance (Schulich School of Music)

Degree: Licentiate in Music

Program credit weight: 100

Program Description

The Licentiate in Music (L.Mus.) Major Performance Jazz is a 100-credit program with options in various instruments.

Special Requirements

- Continuation in the program requires that a grade of A- be maintained in practical instruction/exams and ensembles.
- Candidates must take the L.Mus. Jazz Performance 1 Examination at the end of their first year of study and the L.Mus. Jazz Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

Expand allContract all

Course	Title	Credits
MUIN 250	L.Mus. Practical Instruction 1.	6
MUIN 251	L.Mus. Practical Instruction 2.	6
MUIN 252	L.Mus. Performance 1 Examination.	4
MUIN 350	L.Mus. Practical Instruction 3.	6
MUIN 351	L.Mus. Practical Instruction 4.	6
MUIN 352	L.Mus. Performance 2 Examination.	4
MUIN 450	L.Mus. Practical Instruction 5.	4
MUIN 451	L.Mus. Practical Instruction 6.	4
MUIN 452	L.Mus. Performance 3 Examination.	8

Complementary Performance (18 credits)

Large Ensemble Training - during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2

4 credits, select MUEN 570 (1 x 4 semesters) and 2 credits (1 credit x 2 semesters), select either MUEN 570 (1 credit) or MUEN 574 (1 credit).

Expand allContract all

Course	Title	Credits
MUEN 570	Jazz Combo.	1
MUEN 574	Afro-Cuban/Brazilian Jazz Combo.	1

Required Courses (30 credits)

30 credits selected as follows:

12 credits of Theory

12 credits of Improvisation/Musicianship

6 credits of History

Theory

Expand allContract all

Course	Title	Credits
MUJZ 260	Jazz Arranging 1.	3
MUJZ 261	Jazz Arranging 2.	3
MUJZ 340	Jazz Composition 1.	3
MUJZ 341	Jazz Composition 2.	3

Improvisation/Musicianship

Expand allContract all

Course	Title	Credits
MUJZ 223	Jazz Improvisation/Musicianship 1.	3
MUJZ 224	Jazz Improvisation/Musicianship 2.	3
MUJZ 423	Jazz Improvisation/Musicianship 3.	3
MUJZ 424	Jazz Improvisation/Musicianship 4.	3

History

Expand allContract all

Course	Title	Credits
MUJZ 187	Jazz History Survey.	3
MUJZ 493	Jazz Performance Practice.	3

Complementary Courses

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUJZ 440	Advanced Jazz Composition 1. ¹	2
MUJZ 441	Advanced Jazz Composition 2. ¹	2

MUJZ 461D1	Advanced Jazz Arranging. ¹	2	MUEN 579	Song Interpretation 2.	1
MUJZ 461D2	Advanced Jazz Arranging. ¹	2	MUEN 580	Early Music Ensemble.	1
			MUEN 587	Cappella McGill.	2
			MUEN 593	Choral Ensembles.	2
			MUEN 594	Contemporary Music Ensemble.	2

¹ Students select either MUJZ 440 and MUJZ 441 or MUJZ 461D1 and MUJZ 461D2.

Performance Voice Major (L.Mus.) (105 credits)

Offered by: Performance (Schulich School of Music)

Degree: Licentiate in Music

Program credit weight: 105

Program Description

The Licentiate in Music (L.Mus.) Major Performance Voice is a 105-credit program.

Special Requirements

- Continuation in the program requires a minimum grade of A- in practical instruction/exams, ensembles, and voice coaching.
- Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

Expand allContract all

Course	Title	Credits
MUIN 250	L.Mus. Practical Instruction 1.	6
MUIN 251	L.Mus. Practical Instruction 2.	6
MUIN 252	L.Mus. Performance 1 Examination.	4
MUIN 350	L.Mus. Practical Instruction 3.	6
MUIN 351	L.Mus. Practical Instruction 4.	6
MUIN 352	L.Mus. Performance 2 Examination.	4
MUIN 450	L.Mus. Practical Instruction 5.	4
MUIN 451	L.Mus. Practical Instruction 6.	4
MUIN 452	L.Mus. Performance 3 Examination.	8

Complementary Performance (21 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

12 credits from:

Expand allContract all

Course	Title	Credits
MUEN 496	Opera Studio.	2
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 578	Song Interpretation 1.	1

9 credits from:

MUEN courses at the 400 or 500 level (maximum 4 credits).

Expand allContract all

Course	Title	Credits
MUIN 300	Voice Coaching 1.	2
MUIN 301	Voice Coaching 2.	2
MUPG 296	Acting for Voice.	1
MUPG 297	Movement for Voice.	1
MUPG 309	Advanced Diction.	1
MUPG 353	Song Repertoire Class.	2
MUPG 380	Oratorio Class.	2
MUPG 453	Contemporary Repertoire for Voice.	2

Complementary Musicianship (2 credits)

2 credits from:

Expand allContract all

Course	Title	Credits
MUSP 346	Post-Tonal Musicianship.	2
MUSP 353	Musicianship for Voice.	2
MUSP 354	Introduction to Improvisation and Ornamentation.	2
MUSP 361	Topics in Musicianship.	2
MUSP 381	Singing Renaissance Notation.	2

Required Courses (34 credits)

Diction (9 credits)

Expand allContract all

Course	Title	Credits
MUPG 209	Introduction to Lyric Diction.	1
MUPG 210	Italian Diction.	2
MUPG 211	French Diction.	2
MUPG 212	English Diction.	2
MUPG 213	German Diction.	2

Theory (9 credits)

Expand allContract all

Course	Title	Credits
MUTH 150	Theory and Analysis 1.	3
MUTH 151	Theory and Analysis 2.	3
MUTH 250	Theory and Analysis 3.	3

Musicianship (10 credits)

Expand allContract all

Course	Title	Credits
MUSP 140	Musicianship Training 1.	2
MUSP 141	Musicianship Training 2.	2
MUSP 170	Musicianship (Keyboard) 1.	1
MUSP 171	Musicianship (Keyboard) 2.	1
MUSP 240	Musicianship Training 3.	2
MUSP 241	Musicianship Training 4.	2
MUSP 363	Topics in Global Musicianship.	2

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3

And a 3-credit elective

Following successful completion of the U0 courses, students enter First Year (U1)

Required Courses (86 credits)

Expand allContract all

Course	Title	Credits
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
NUR1 209	Pathophysiology for Nursing 1.	3
NUR1 210	Pathophysiology for Nursing 2.	3
NUR1 221	Intro to Prof Practice & Strengths-Based Nursing&Healthcare.	3
NUR1 224	Individual and Family Development Across Lifespans 1.	4
NUR1 225	Individual and Family Development Across Lifespans 2.	4

NUR1 230	Supporting Health and Healing Capacities 1.	1
NUR1 231	Supporting Health and Healing Capacities 2.	1
NUR1 233	Promoting Young Family Development.	2
NUR1 234	Nursing Older Adults.	2
NUR1 235	Health and Physical Assessment/Anatomy 1.	3
NUR1 236	Health and Physical Assessment/Anatomy 2.	3
NUR1 300	Pharmacology for Nursing 1.	3
NUR1 301	Pharmacology for Nursing 2.	3
NUR1 311	Infection Prevention and Control.	3
NUR1 323	Illness Management 1.	3
NUR1 324	Illness Management 2.	3
NUR1 325	Acute, Chronic, and Palliative Health Challenges 1.	4
NUR1 326	Acute, Chronic, and Palliative Health Challenges 2.	4
NUR1 329	Skin Integrity and Wound Care.	3
NUR1 331	Nursing in Illness 1.	4
NUR1 332	Nursing in Illness 2.	4
NUR1 333	Nursing in Illness 3.	3
NUR1 335	Illness Management Clinical Skills Laboratory 1.	1
NUR1 336	Illness Management Clinical Skills Laboratory 2.	1
NUR1 423	Leading Change: Policy and Practice.	4
NUR1 424	Legal, Ethical, and Professional Practice Issues.	4
NUR1 431	Community Health Nursing Practicum.	3

History (6 credits)

Expand allContract all

Course	Title	Credits
MUHL 186	Western Musical Traditions.	3
MUHL 286	Critical Thinking About Music.	3

Nursing (B.Sc.(N.)) (103 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: BSCNUR

Program credit weight: 103

Program Description

The B.Sc.(N.) is a 3-4 year program (including summer sessions) that focuses on complex and contemporary nursing issues. As a preparation for a nursing career, the program includes innovative courses on fundamental nursing expertise, skills and critical thinking. Completion of this program entitles successful graduates to sit licensure examinations in Quebec, Canada, and other countries. This program is accredited by the Canadian Association of Schools of Nursing.

U0 Required Courses (27 credits)

The first year (U0) of the 136- or 137-credit four-year program consists of the following courses:

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
CHEM 212	Introductory Organic Chemistry 1.	4
MATH 141	Calculus 2.	4
PHYS 101	Introductory Physics - Mechanics.	4
PHYS 102	Introductory Physics - Electromagnetism.	4

U0 Complementary Courses (6 or 7 credits)

One of the following Calculus courses:

NUR1 432	Community Health Nursing Project.	3	NUR1 222	Strengths-Based Nursing & Healthcare & Professional Practice.	3
NUR1 529	Critical Care Nursing.	4	NUR1 300	Pharmacology for Nursing 1.	3

Complementary Courses (8 credits)

5 credits from the following:

Expand allContract all

Course	Title	Credits
NUR1 530	Nursing Practice Consolidation.	5
NUR1 531	Ambassador Nursing Practice Consolidation.	5

AND

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 375	Introductory Statistics.	3
PSYC 204	Introduction to Psychological Statistics.	3

Elective Courses (9 credits)

9 credits at the 200-500 level.

Integrated Nursing (B.N.I.) (65 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: BNUR

Program credit weight: 65

Program Description

This program is offered in two modalities, online and on campus. Students must register in online or on campus courses according to the program they are admitted into.

For details on the course of study, please refer to <http://www.mcgill.ca/nursing/programs/bachelor-nursing-integrated/courses>.

Please click here for information on additional requirements for students pursuing this online program:

https://www.mcgill.ca/study/university_regulations_and_resources/undergr...

Required Courses (55 credits)

Expand allContract all

Course	Title	Credits
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
NUR1 209	Pathophysiology for Nursing 1.	3
NUR1 210	Pathophysiology for Nursing 2.	3

NUR1 222	Strengths-Based Nursing & Healthcare & Professional Practice.	3
NUR1 300	Pharmacology for Nursing 1.	3
NUR1 301	Pharmacology for Nursing 2.	3
NUR1 312	Research in Nursing.	3
NUR1 318	Chronic Illness and Palliative Health Challenges.	4
NUR1 320	Critical Care Nursing Theory.	3
NUR1 327	Critical Health Challenges.	4
NUR1 329	Skin Integrity and Wound Care.	3
NUR1 338	Applied Health and Physical Assessment/ Anatomy 1.	3
NUR1 339	Applied Health and Physical Assessment/ Anatomy 2.	3
NUR1 423	Leading Change: Policy and Practice.	4
NUR1 424	Legal, Ethical, and Professional Practice Issues.	4
NUR1 431	Community Health Nursing Practicum.	3
NUR1 432	Community Health Nursing Project.	3
PSYC 204	Introduction to Psychological Statistics.	3

Complementary Course (4 credits)

4 credits from the following:

Expand allContract all

Course	Title	Credits
NUR1 434	Critical Care Nursing Practicum.	4
NUR1 435	Ambassador Critical Care Practicum.	4

Elective Courses (6 credits)

6 credits with 3 credits at the 300 level or above.

Occupational Therapy Major (B.Sc.) (Rehabilitation Science) (90 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: BSCRS

Program credit weight: 90

Program Description

The B.Sc.(Rehabilitation Science); Major in Occupational Therapy emphasizes basic health sciences foundation specific to the practice of Occupational Therapy. The program focuses on occupation and occupational performance in daily life, community rehabilitation, client-centered and evidence based practice, clinical reasoning, ethics, teamwork and professionalism as essential components for the development of a humanistic, ethical, knowledgeable, competent, critical thinking and problem-solving occupational therapist.

Required Courses (75 credits)

Expand allContract all

Course	Title	Credits
ANAT 315	Clinical Human Musculoskeletal Anatomy.	3
ANAT 316	Clinical Human Visceral Anatomy . ¹	3
ANAT 321	Circuitry of the Human Brain. ¹	3
ANAT 323	Clinical Neuroanatomy.	3
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
OCC1 245	Introduction to Professional Practice 1.	3
OCC1 443	Constructing Mental Health.	3
OCC1 450	Enabling Leisure Occupations.	3
OCC1 500D1	Pre-Clinical Practicum Seminar.	0
OCC1 500D2	Pre-Clinical Practicum Seminar.	0
OCC1 545	Therapeutic Strategies in OT 1.	8
OCC1 547	Occupational Solutions 1.	6
OCC1 548	Holistic Approaches in OT.	3
OCC1 549	Therapeutic Strategies in OT 2.	4
OCC1 550	Enabling Human Occupation.	3
OCC1 551	Psychosocial Practice in OT.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
POTH 204	Introduction to Statistics for OT/PT.	3
POTH 225	Introduction to Biomechanics in Rehabilitation Sciences.	3
POTH 250	Introduction to Professional Practice 2.	3
POTH 305	Statistics for Experimental Design OT/PT	3
POTH 401	Research Methods.	3
POTH 434	Musculoskeletal Biomechanics.	3
POTH 455	Neurophysiology.	3
POTH 563	Foundations of Professional Practice.	3

Physical Therapy Major (B.Sc.) (Rehabilitation Science) (90 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: BSCRS

Program credit weight: 90

Program Description

The B.Sc.(Rehabilitation Science); Major in Physical Therapy emphasizes basic health sciences foundation specific to the practice of Physical Therapy. The program focuses on clinical reasoning, diagnostics, evidence-based practice, community rehabilitation, teamwork and professionalism as essential components for the development of a humanistic, ethical, knowledgeable, competent critical thinking and problem-solving physical therapist.

Required Courses (81 credits)

Expand allContract all

Course	Title	Credits
ANAT 315	Clinical Human Musculoskeletal Anatomy.	3
ANAT 316	Clinical Human Visceral Anatomy . ¹	3
ANAT 321	Circuitry of the Human Brain. ¹	3
ANAT 323	Clinical Neuroanatomy.	3
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
POTH 204	Introduction to Statistics for OT/PT.	3
POTH 225	Introduction to Biomechanics in Rehabilitation Sciences.	3
POTH 250	Introduction to Professional Practice 2.	3
POTH 305	Statistics for Experimental Design OT/PT	3
POTH 401	Research Methods.	3
POTH 434	Musculoskeletal Biomechanics.	3
POTH 455	Neurophysiology.	3
POTH 563	Foundations of Professional Practice.	3
¹ Note: Students may choose ANAT 321 Circuitry of the Human Brain. or ANAT 323 Clinical Neuroanatomy. but not both.		
POTH 204	Introduction to Statistics for OT/PT.	3
POTH 225	Introduction to Biomechanics in Rehabilitation Sciences.	3
POTH 250	Introduction to Professional Practice 2.	3
POTH 305	Statistics for Experimental Design OT/PT	3
POTH 401	Research Methods.	3
POTH 434	Musculoskeletal Biomechanics.	3

Complementary Courses (15 credits)

These courses are to be completed prior to entering third year (U3). The complementary credits are chosen from the following areas:

- Psychology
- Management (in the area of personnel and private practice management)
- Academic Writing
- Sociology/Anthropology courses
- French or English second language course if not proficient in French or English (maximum of 6 credits)
- Students may also take a 3-credit Sports Medicine Practicum course as part of the complementary courses. (Selection interview required for Sports Medicine Practicum.)
- Maximum of 3 credits of a personal interest course.

POTH 455	Neurophysiology.	3	Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.
POTH 563	Foundations of Professional Practice.	3	

- ¹ Students may choose ANAT 321 Circuitry of the Human Brain, or ANAT 323 Clinical Neuroanatomy, but not both.

Complementary Courses (6-9 credits)

These courses are to be completed prior to entering third year (U3). The complementary credits are chosen from the following subject areas:

- Psychology
- Management (in the area of personnel and private practice management)
- Academic Writing
- Sociology/Anthropology courses
- French or English second language course if not proficient in French or English (maximum of 6 credits)
- Students may take PHTH 301 Sports Medicine Practicum. (3 credits) as a U2 complementary course.

Elective Course (0-3 credits)

- Maximum of one 3-credit elective (personal interest) course.

Foundation Program (30 credits)

Offered by: Science

Degree: Bachelor of Science

Program credit weight: 30

Program Description

Students who need 97-120 credits to complete their degree requirements will normally be registered in the Science Foundation Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection.

Full details are available on the SOUSA website at <http://www.mcgill.ca/science/student/newstudents/u0>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman/Foundation Year Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman/Foundation Year courses to satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;
or

- 3 Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman/Foundation Year Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman/Foundation Year.
2. Many students will complete more than seven courses from the Approved Freshman/Foundation Year Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman/Foundation Year should be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <https://www.mcgill.ca/sousa/newstudents/courseselection/bscu0>.
4. The maximum number of courses per term, required, complementary, and elective, is five.
5. Some medical and dental schools have specific freshman course requirements. Check the admission requirements of the school(s) to which you intend to apply.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

List of Approved Freshman/Foundation Year Science Courses

Select the approved courses according to the instructions above.

Expand allContract all

Course	Title	Credits
ATOC 100	Extreme-Weather and Climate-Change Physics.	0-3
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
CHEM 110	General Chemistry 1.	4 ¹
CHEM 120	General Chemistry 2.	4
COMP 202	Foundations of Programming.	3
ESYS 104	The Earth System.	3
GEOG 205	Global Change: Past, Present and Future.	3

MATH 133	Linear Algebra and Geometry.
PSYC 100	Introduction to Psychology.

3 human anatomy. The program includes a wide range of biomedical science disciplines such as experimental medicine, microbiology and immunology, pharmacology and physiology.

¹ CHEM 120 General Chemistry 2. is not open to students who have taken CHEM 115.

First calculus course, one of:

Expand allContract all

Course	Title	Credits
MATH 139	Calculus 1 with Precalculus.	4
MATH 140	Calculus 1.	3
MATH 150	Calculus A.	4

Second calculus course, one of:

Expand allContract all

Course	Title	Credits
MATH 141	Calculus 2.	4
MATH 151	Calculus B.	4

First physics course, one of:

Expand allContract all

Course	Title	Credits
PHYS 101	Introductory Physics - Mechanics.	4
PHYS 131	Mechanics and Waves.	4

Second physics course, one of:

Expand allContract all

Course	Title	Credits
PHYS 102	Introductory Physics - Electromagnetism.	4
PHYS 142	Electromagnetism and Optics.	4

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/> suggested... Certain courses offered by other faculties may also be taken, but some restrictions apply. Consult the SOUSA website at <http://www.mcgill.ca/science/student/continuingstudents/bsc/outside/> for more information about taking courses from other faculties.

Anatomy and Cell Biology Major (B.Sc.) (67 credits)

Offered by: Anatomy and Cell Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 67

Program Description

The B.Sc.; Major in Anatomy and Cell Biology focuses on the fundamentals of biomedical science, with a strong foundation in cell and molecular biology, as well as the essential concepts of

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (43 credits)

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function.	3
ANAT 214	Systemic Human Anatomy.	3
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 222	Introductory Organic Chemistry 2.	4
MIMM 214	Introductory Immunology: Elements of Immunity.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP and receive a course exemption upon admission are exempt from the program requirement(s) and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

Select 3 credits of the following:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP and receive

a course exemption upon admission are exempt from the program requirement(s) and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

Complementary Courses (24 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

12 credits of advanced anatomy courses (AAC) selected from:

Expand allContract all

Course	Title	Credits
ANAT 314	Human Musculoskeletal Anatomy .	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 416	Development, Disease and Regeneration.	3
ANAT 458	Membranes and Cellular Signaling.	3
ANAT 514	Advanced Human Anatomy Laboratory.	3
ANAT 541	Cell and Molecular Biology of Aging.	3
ANAT 565	Diseases-Membrane Trafficking.	3
NEUR 310	Cellular Neurobiology.	3

12 credits of biologically oriented courses (BOC) selected from:

Expand allContract all

Course	Title	Credits
ANAT 314	Human Musculoskeletal Anatomy .	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 416	Development, Disease and Regeneration.	3
ANAT 458	Membranes and Cellular Signaling.	3
ANAT 541	Cell and Molecular Biology of Aging.	3
ANAT 565	Diseases-Membrane Trafficking.	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 458	Membranes and Cellular Signaling.	3
BIOC 503	Biochemistry of Immune Diseases.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 320	Evolution of Brain and Behaviour.	3

BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 544	Genetic Basis of Life Span.	3
BIOL 546	Genetics of Model Systems.	3
BIOL 551	Principles of Cellular Control.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
BIOT 505	Selected Topics in Biotechnology.	3
COMP 204	Computer Programming for Life Sciences.	3
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
EXMD 502	Advanced Endocrinology 1.	3
EXMD 503	Advanced Endocrinology 02.	3
EXMD 504	Biology of Cancer.	3
EXMD 506	Advanced Applied Cardiovascular Physiology.	3
EXMD 507	Advanced Applied Respiratory Physiology.	3
EXMD 508	Advanced Topics in Respiration.	3
HGEN 575	Human Biochemical Genetics.	3
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 387	The Business of Science.	3
MIMM 413	Parasitology.	3
MIMM 414	Advanced Immunology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3
MIMM 509	Inflammatory Processes.	3
NEUR 310	Cellular Neurobiology.	3
PATH 300	Human Disease.	3
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3
PHAR 303	Principles of Toxicology.	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3
PHGY 451	Advanced Neurophysiology.	3
PHGY 502	Exercise Physiology.	3
PHGY 513	Translational Immunology.	3
PHGY 515	Blood-Brain Barrier in Health and Disease.	3
PHGY 516	Physiology of Blood .	3
PHGY 518	Artificial Cells.	3

PHGY 556	Topics in Systems Neuroscience.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

from the program requirement(s) and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

Anatomy and Cell Biology Liberal Program - Core Science Component (B.Sc.) (47-48 credits)

Offered by: Anatomy and Cell Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 47-48

Program Description

The B.Sc.; Liberal Program - Core Science Component in Anatomy and Cell Biology is a flexible program that focuses on the fundamentals of cell and molecular biology and human anatomy. The program includes a range of biomedical science disciplines such as biology, experimental medicine, pharmacology and neurobiology. Students may complete this program with a minimum of 47 credits or a maximum of 48 credits depending on their choice of complementary courses.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (32 credits)

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function.	3
ANAT 214	Systemic Human Anatomy.	3
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

3 credits from the following statistics courses:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

Complementary Courses (15-16 credits)

Students complete a minimum of 15 or a maximum of 16 complementary course credits selected as follows:

9 credits of advanced anatomy courses (AAC) selected from:

Expand allContract all

Course	Title	Credits
ANAT 314	Human Musculoskeletal Anatomy .	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 514	Advanced Human Anatomy Laboratory.	3
ANAT 565	Diseases-Membrane Trafficking.	3
NEUR 310	Cellular Neurobiology.	3

6-7 credits of biologically oriented courses (BOC) selected from:

Expand allContract all

Course	Title	Credits
ANAT 314	Human Musculoskeletal Anatomy .	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 565	Diseases-Membrane Trafficking.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 320	Evolution of Brain and Behaviour.	3
COMP 204	Computer Programming for Life Sciences.	3
EXMD 504	Biology of Cancer.	3
NEUR 310	Cellular Neurobiology.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3
PATH 300	Human Disease.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1. and/or MATH 203 Principles of Statistics 1. in CEGEP and receive a course exemption upon admission are exempt

PHAR 300	Drug Action.	3	PHGY 209	Mammalian Physiology 1.	3
PHAR 301	Drugs and Disease.	3	PHGY 210	Mammalian Physiology 2.	3

Anatomy and Cell Biology Honours (B.Sc.) (73 credits)

Offered by: Anatomy and Cell Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 73

Program Description

Students should register at the Major level in U1 and, if accepted, may enter the Honours program at the beginning of U2. To enter the program, the student must obtain a CGPA of at least 3.20 at the end of U1. For promotion to the U3 year of the Honours program, or for entry into the program at this level, the student must have a CGPA of at least 3.20 at the end of their U2 year. It is expected that at the beginning of the third year, the students who wish to continue in the Honours program will be those who feel that they are seriously interested in a career in Cell Biology. The Honours degree will be recommended after successful completion of the program with a CGPA of at least 3.20.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (52 credits)

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function.	3
ANAT 214	Systemic Human Anatomy.	3
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 432	Honours Research Project.	9
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 212	Introductory Organic Chemistry 1. ¹	4
CHEM 222	Introductory Organic Chemistry 2. ¹	4
MIMM 214	Introductory Immunology: Elements of Immunity.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP and receive a course exemption upon admission are exempt from the program requirement(s) and must replace these credits with elective course

Select 3 credits from the following statistics courses:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1. ¹	3
PSYC 204	Introduction to Psychological Statistics.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP and receive a course exemption upon admission are exempt from the program requirement(s) and must replace these credits with elective course

Complementary Courses (21 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

18 credits of advanced anatomy courses (AAC) selected from:

Expand allContract all

Course	Title	Credits
ANAT 314	Human Musculoskeletal Anatomy . ¹	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology. ¹	3
ANAT 323	Clinical Neuroanatomy.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 416	Development, Disease and Regeneration.	3
ANAT 458	Membranes and Cellular Signaling.	3
ANAT 514	Advanced Human Anatomy Laboratory.	3
ANAT 541	Cell and Molecular Biology of Aging.	3
ANAT 542	Transmission Electron Microscopy of Biological Samples.	3
ANAT 565	Diseases-Membrane Trafficking.	3
NEUR 310	Cellular Neurobiology.	3

¹ Note: Students may take either ANAT 321 Circuitry of the Human Brain. OR ANAT 323 Clinical Neuroanatomy..

3 credits of biologically oriented courses (BOC) selected from:

Expand allContract all

Course	Title	Credits	MIMM 413	Parasitology.	3
ANAT 314	Human Musculoskeletal Anatomy .	3	MIMM 414	Advanced Immunology.	3
ANAT 321	Circuitry of the Human Brain.	3	MIMM 465	Bacterial Pathogenesis.	3
ANAT 322	Neuroendocrinology.	3	MIMM 466	Viral Pathogenesis.	3
ANAT 323	Clinical Neuroanatomy.	3	MIMM 509	Inflammatory Processes.	3
ANAT 365	Cellular Trafficking.	3	NEUR 310	Cellular Neurobiology.	3
ANAT 381	Experimental Embryology.	3	NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3
ANAT 416	Development, Disease and Regeneration.	3	PATH 300	Human Disease.	3
ANAT 458	Membranes and Cellular Signaling.	3	PHAR 300	Drug Action.	3
ANAT 541	Cell and Molecular Biology of Aging.	3	PHAR 301	Drugs and Disease.	3
ANAT 542	Transmission Electron Microscopy of Biological Samples.	3	PHAR 303	Principles of Toxicology.	3
ANAT 565	Diseases-Membrane Trafficking.	3	PHAR 562	Neuropharmacology.	3
BIOC 311	Metabolic Biochemistry.	3	PHAR 563	Endocrine Pharmacology.	3
BIOC 312	Biochemistry of Macromolecules.	3	PHGY 311	Channels, Synapses and Hormones.	3
BIOC 450	Protein Structure and Function.	3	PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
BIOC 458	Membranes and Cellular Signaling.	3	PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
BIOC 503	Biochemistry of Immune Diseases.	3	PHGY 314	Integrative Neuroscience.	3
BIOL 300	Molecular Biology of the Gene.	3	PHGY 451	Advanced Neurophysiology.	3
BIOL 303	Developmental Biology.	3	PHGY 502	Exercise Physiology.	3
BIOL 306	Neural Basis of Behaviour.	3	PHGY 513	Translational Immunology.	3
BIOL 313	Eukaryotic Cell Biology.	3	PHGY 515	Blood-Brain Barrier in Health and Disease.	3
BIOL 314	Molecular Biology of Cancer.	3	PHGY 516	Physiology of Blood .	3
BIOL 320	Evolution of Brain and Behaviour.	3	PHGY 518	Artificial Cells.	3
BIOL 518	Advanced Topics in Cell Biology.	3	PHGY 556	Topics in Systems Neuroscience.	3
BIOL 520	Gene Activity in Development.	3	PSYT 500	Advances: Neurobiology of Mental Disorders.	3
BIOL 524	Topics in Molecular Biology.	3			
BIOL 532	Developmental Neurobiology Seminar.	3			
BIOL 544	Genetic Basis of Life Span.	3			
BIOL 546	Genetics of Model Systems.	3			
BIOL 551	Principles of Cellular Control.	3			
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3			
BIOT 505	Selected Topics in Biotechnology.	3			
COMP 204	Computer Programming for Life Sciences.	3			
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3			
EXMD 502	Advanced Endocrinology 1.	3			
EXMD 503	Advanced Endocrinology 02.	3			
EXMD 504	Biology of Cancer.	3			
EXMD 506	Advanced Applied Cardiovascular Physiology.	3			
EXMD 507	Advanced Applied Respiratory Physiology.	3			
EXMD 508	Advanced Topics in Respiration.	3			
HGEN 575	Human Biochemical Genetics.	3			
MIMM 314	Intermediate Immunology.	3			
MIMM 323	Microbial Physiology.	3			
MIMM 324	Fundamental Virology.	3			
MIMM 387	The Business of Science.	3			

Atmospheric Science Minor (B.Sc.) (18 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The B.Sc.; Minor in Atmospheric Science is intended to provide the basics of the atmospheric and oceanic properties and circulation, in connection with weather phenomena and the climate system.

Complementary Courses (18 credits)

9-15 selected from:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry. ¹	3

ATOC 309	Weather Radars and Satellites.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 357	Atmospheric and Oceanic Science Laboratory. ²	3
ATOC 404	Climate Physics. ¹	3
CHEM 219	Introduction to Atmospheric Chemistry. ²	3
PHYS 404	Climate Physics.	3

¹ Note: Students may select ATOC 219 Introduction to Atmospheric Chemistry, or CHEM 219 Introduction to Atmospheric Chemistry, but not both.

² Note: Students may select ATOC 404 Climate Physics, or PHYS 404 Climate Physics, but not both.

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 548	Mesoscale Meteorology.	3
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3

Atmospheric and Oceanic Sciences Liberal Program - Core Science Component (B.Sc.) (48 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 48

Program Description

The B.Sc.; Liberal Program - Core Science Component in Atmospheric and Oceanic Sciences provides a solid foundation of knowledge relevant for the physical science of the atmosphere and oceans with application to weather and climate. The program may be completed in 45 or 48 credits

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3

Complementary Courses (24-27 credits)

Note: All students are encouraged to consult with the Undergraduate Adviser for help selecting from among the complementary courses.

3-6 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ATOC 219	Introduction to Atmospheric Chemistry.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
ATOC 357	Atmospheric and Oceanic Science Laboratory.	3
PHYS 257	Experimental Methods 1.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems.	3
PHYS 251	Honours Classical Mechanics 1.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits	To graduate, students must satisfy both their program requirements and their degree requirements.
PHYS 232	Heat and Waves.	3	
PHYS 253	Thermal Physics.	3	<ul style="list-style-type: none"> The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above). The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
12-15 credits selected from (at least 6 of which must be ATOC):			
Expand allContract all			
Course	Title	Credits	
ATOCH 309	Weather Radars and Satellites.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
ATOCH 512	Atmospheric and Oceanic Dynamics.	3	
ATOCH 513	Waves and Stability.	3	
ATOCH 515	Turbulence in Atmosphere and Oceans.	3	
ATOCH 517	Boundary Layer Meteorology.	3	
ATOCH 519	Advances in Chemistry of Atmosphere.	3	
ATOCH 521	Cloud Physics.	3	
ATOCH 525	Atmospheric Radiation.	3	
ATOCH 531	Dynamics of Current Climates.	3	
ATOCH 540	Synoptic Meteorology 1.	3	
ATOCH 541	Synoptic Meteorology 2.	3	
ATOCH 546	Current Weather Discussion.	1	
ATOCH 548	Mesoscale Meteorology.	3	
ATOCH 557	Research Methods: Atmospheric and Oceanic Science.	3	
ATOCH 558	Numerical Methods and Laboratory.	3	
ATOCH 568	Ocean Physics.	3	
COMP 208	Computer Programming for Physical Sciences and Engineering .	3	
MATH 203	Principles of Statistics 1.	3	
MATH 319	Partial Differential Equations .	3	
PHYS 333	Thermal and Statistical Physics.	3	
PHYS 340	Majors Electricity and Magnetism.	3	

Atmospheric Science Major (B.Sc.) (62 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 62

Program Description

(60-63 credits)

The B.Sc.; Major in Atmospheric Science provides the fundamentals of atmospheric physics and dynamics along with applications to weather and climate problems. The program includes the choice of a wide selection of topics spanning from atmospheric chemistry, to weather forecasting and climate dynamics. The program may be completed in 60-63 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

Required Courses (24 credits)

Course	Title	Credits
ATOCH 214	Introduction: Physics of the Atmosphere.	3
ATOCH 312	Rotating Fluid Dynamics.	3
ATOCH 315	Thermodynamics and Convection.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3

Complementary Courses (36-39 credits)

Note: Students are required to fulfill the core complementary requirements along with one of the four streams listed below. In cases of overlap, each course can only be used once toward the satisfaction of the core complementary courses or the chosen stream.

Core (21-22 credits)

3-6 credits selected from:

Course	Title	Credits
ATOCH 215	Oceans, Weather and Climate.	3
ATOCH 219	Introduction to Atmospheric Chemistry.	1
CHEM 219	Introduction to Atmospheric Chemistry.	3

¹ If chosen, students may take ATOC 219 Introduction to Atmospheric Chemistry. or CHEM 219 Introduction to Atmospheric Chemistry..

3 credits selected from:

Course	Title	Credits
ATOCH 357	Atmospheric and Oceanic Science Laboratory.	3
PHYS 257	Experimental Methods 1.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits			
PHYS 230	Dynamics of Simple Systems.	3	ATOC 541	Synoptic Meteorology 2.	3
PHYS 251	Honours Classical Mechanics 1.	3	ATOC 546	Current Weather Discussion.	1

3 credits selected from:

Course	Title	Credits			
PHYS 232	Heat and Waves.	3	ATOC 404	Climate Physics. ¹	3
PHYS 253	Thermal Physics.	3	ATOC 512	Atmospheric and Oceanic Dynamics.	3

6-10 credits selected from:

Course	Title	Credits			
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3	ATOC 517	Boundary Layer Meteorology.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3	ATOC 525	Atmospheric Radiation.	3
CHEM 367	Instrumental Analysis 1.	3	ATOC 531	Dynamics of Current Climates.	3
CHEM 575	Chemical Kinetics.	3	ATOC 548	Mesoscale Meteorology.	0-3
COMP 551	Applied Machine Learning. ¹	4	ATOC 558	Numerical Methods and Laboratory.	3
MATH 203	Principles of Statistics 1.	3	ATOC 568	Ocean Physics.	3
MATH 317	Numerical Analysis.	3	ESYS 300	Earth Data Analysis.	3
MATH 319	Partial Differential Equations .	3	ESYS 301	Earth System Modelling.	3
MATH 323	Probability. ¹	3	GEOG 322	Environmental Hydrology.	3
MATH 324	Statistics. ¹	3	GEOG 372	Running Water Environments.	3
PHYS 333	Thermal and Statistical Physics.	3	MATH 555	Fluid Dynamics. ²	4
PHYS 340	Majors Electricity and Magnetism. ³	3	PHYS 404	Climate Physics. ¹	3
PHYS 342	Majors Electromagnetic Waves.	3	PHYS 432	Physics of Fluids. ²	3
PHYS 350	Honours Electricity and Magnetism. ³	3	PHYS 512	Computational Physics with Applications.	3
PHYS 352	Honours Electromagnetic Waves.	3			

¹ If chosen, students may take either MATH 203 Principles of Statistics or MATH 324 Statistics..

² If chosen, students may take either PHYS 340 Majors Electricity and Magnetism. or PHYS 350 Honours Electricity and Magnetism..

³ If chosen, students may take either PHYS 342 Majors Electromagnetic Waves. and PHYS 352 Honours Electromagnetic Waves..

Streams

15-17 credits from one of the following streams:

Weather Analysis and Forecasting Stream (16-17 credits)

13 credits from:

Course	Title	Credits			
ATOC 309	Weather Radars and Satellites.	3	ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 521	Cloud Physics.	3	ATOC 513	Waves and Stability.	3
ATOC 540	Synoptic Meteorology 1.	3	ATOC 519	Advances in Chemistry of Atmosphere.	3

¹ If chosen, students may take either ATOC 404 Climate Physics. or PHYS 404 Climate Physics..

9 credits (at least 6 credits must be ATOC courses) selected from:

Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 558	Numerical Methods and Laboratory.	3

ATOC 568	Ocean Physics.	3	ESYS 300	Earth Data Analysis.	3
ESYS 300	Earth Data Analysis.	3	ESYS 301	Earth System Modelling.	3
ESYS 301	Earth System Modelling.	3	GEOG 322	Environmental Hydrology.	3
GEOG 322	Environmental Hydrology.	3	GEOG 372	Running Water Environments. ²	3
GEOG 372	Running Water Environments.	3	MATH 555	Fluid Dynamics. ¹	4
MATH 323	Probability.	3	PHYS 404	Climate Physics. ²	3
PHYS 512	Computational Physics with Applications.	3	PHYS 432	Physics of Fluids. ²	3
			PHYS 512	Computational Physics with Applications.	3

Atmospheric Chemistry and Physics Stream (15 credits)

Expand allContract all

Course	Title	Credits
ATOC 309	Weather Radars and Satellites. ¹	3
ATOC 404	Climate Physics.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
PHYS 404	Climate Physics. ¹	3
PHYS 512	Computational Physics with Applications.	3

¹ If chosen, students may take either ATOC 404 Climate Physics. or PHYS 404 Climate Physics..

General Stream (15-17 credits)

15-17 credits (at least 12 credits must be ATOC courses) selected from:

Expand allContract all

Course	Title	Credits
ATOC 309	Weather Radars and Satellites. ¹	3
ATOC 404	Climate Physics.	3
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 541	Synoptic Meteorology 2.	3
ATOC 546	Current Weather Discussion. ¹	1
ATOC 548	Mesoscale Meteorology.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 575	Chemical Kinetics.	3

Atmospheric Science and Physics Major (B.Sc.) (67 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 67

Program Description

(66-67 credits)

The B.Sc.; Major in Atmospheric Science and Physics provides a solid study in meteorology, atmospheric physics, or related fields.

The program is jointly offered by the Department of Physics and the Department of Atmospheric and Oceanic Sciences. Students should consult undergraduate advisers in both departments.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (54 credits)

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 215	Oceans, Weather and Climate.	3
ATOC 309	Weather Radars and Satellites.	3

ATOC 312	Rotating Fluid Dynamics.	3	PHYS 339	Measurements Laboratory in General Physics. ¹	3	
ATOC 315	Thermodynamics and Convection.	3	PHYS 404	Climate Physics.	3	
COMP 208	Computer Programming for Physical Sciences and Engineering .	3	PHYS 432	Physics of Fluids.	3	
MATH 222	Calculus 3.	3	PHYS 434	Optics.	3	
MATH 223	Linear Algebra.	3	PHYS 449	Majors Research Project.	3	
MATH 314	Advanced Calculus.	3	PHYS 512	Computational Physics with Applications.	3	
MATH 315	Ordinary Differential Equations.	3	¹ Students cannot take both ATOC 404 Climate Physics. and PHYS 404 Climate Physics..			
PHYS 230	Dynamics of Simple Systems.	3				
PHYS 232	Heat and Waves.	3				
PHYS 241	Signal Processing.	3				
PHYS 257	Experimental Methods 1.	3				
PHYS 333	Thermal and Statistical Physics.	3				
PHYS 340	Majors Electricity and Magnetism.	3				
PHYS 342	Majors Electromagnetic Waves.	3				
PHYS 346	Majors Quantum Physics.	3				

Complementary Courses (12-13 credits)

3 credits selected from:

Course	Title	Credits
ATOC 357	Atmospheric and Oceanic Science Laboratory.	3
PHYS 258	Experimental Methods 2.	3

9-10 credits selected from:

Course	Title	Credits
ATOC 357	Atmospheric and Oceanic Science Laboratory. ¹	3
ATOC 404	Climate Physics.	3
ATOC 480	Honours Research Project.	3
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 541	Synoptic Meteorology 2.	3
ATOC 548	Mesoscale Meteorology.	3
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3
COMP 551	Applied Machine Learning.	4
PHYS 331	Topics in Classical Mechanics.	3

Atmospheric Science Honours (B.Sc.) (75 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

72-75 credits

The B.Sc.; Honours in Atmospheric Science provides advanced training in atmospheric science, and it includes a research component.

Students can be admitted to the Honours program after completion of the U1 year of the Major in Atmospheric Science program with a minimum GPA of 3.30. Students having completed a U1 year in a different program with high standing may be admitted to the Honours program on the recommendation of that department.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (27 credits)

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 480	Honours Research Project.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3

Complementary Courses (45-48 credits)

Note: Students are required to fulfill the core complementary requirements along with one of the four streams listed below. In cases of overlap, each course can only be used once toward the satisfaction of the core complementary courses or the chosen stream.

Core (24-25 credits) (24 credits)

3-6 credits selected from:

Expand all	Contract all
Course	Title
ATOC 215	Oceans, Weather and Climate.
ATOC 219	Introduction to Atmospheric Chemistry.

¹ If chosen, students may take either ATOC 219 Introduction to Atmospheric Chemistry. or CHEM 219 Introduction to Atmospheric Chemistry..

3 credits selected from:

Expand all	Contract all
Course	Title
ATOC 357	Atmospheric and Oceanic Science Laboratory.

3 credits selected from:

Expand all	Contract all
Course	Title
PHYS 230	Dynamics of Simple Systems.

3 credits selected from:

Expand all	Contract all
Course	Title
PHYS 232	Heat and Waves.

Expand all	Contract all
Course	Title
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.

Expand all	Contract all
Course	Title
MATH 319	Partial Differential Equations .

6-10 credits selected from:

Expand all

Course	Title	Credits
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 575	Chemical Kinetics.	3
COMP 551	Applied Machine Learning.	4
MATH 203	Principles of Statistics 1.	3
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
PHYS 333	Thermal and Statistical Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 342	Majors Electromagnetic Waves.	3
PHYS 350	Honours Electricity and Magnetism.	3
PHYS 352	Honours Electromagnetic Waves.	3

¹ If chosen, students may take either MATH 203 Principles of Statistics

² 1. or MATH 324 Statistics..

³ If chosen, students may take either PHYS 340 Majors Electricity and

³ Magnetism. or PHYS 350 Honours Electricity and Magnetism..

³ If chosen, students may take either PHYS 342 Majors

Electromagnetic Waves. or PHYS 352 Honours Electromagnetic

Waves..

Streams

21-23 credits from one of the following four streams:

Weather Analysis and Forecasting Stream (22-23 credits)

16 credits from:

Expand all	Contract all
Course	Title
ATOC 309	Weather Radars and Satellites.
ATOC 512	Atmospheric and Oceanic Dynamics.
ATOC 521	Cloud Physics.
ATOC 540	Synoptic Meteorology 1.
ATOC 541	Synoptic Meteorology 2.
ATOC 546	Current Weather Discussion.

6-7 credits selected from:

Course	Title	Credits
ATOC 404	Climate Physics. ¹	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 517	Boundary Layer Meteorology .	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 548	Mesoscale Meteorology.	3

ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3	PHYS 432	Physics of Fluids. ¹	3
ATOC 558	Numerical Methods and Laboratory.	3	PHYS 512	Computational Physics with Applications.	3
ATOC 568	Ocean Physics.	3			
ESYS 300	Earth Data Analysis.	3			
ESYS 301	Earth System Modelling. ²	3			
MATH 555	Fluid Dynamics.	4			
PHYS 404	Climate Physics. ¹	3			
PHYS 432	Physics of Fluids. ²	3			
PHYS 512	Computational Physics with Applications.	3			

¹ If chosen, students may take either PHYS 432 Physics of Fluids. or
² MATH 555 Fluid Dynamics..
If chosen, students may take either PHYS 432 Physics of Fluids. or MATH 555 Fluid Dynamics.MATH 555 Fluid Dynamics..

Climate Science Stream (21-22 credits)

15 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
ATOC 404	Climate Physics. ¹	3
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 531	Dynamics of Current Climates.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
PHYS 404	Climate Physics. ¹	3

¹ If chosen, students may take either ATOC 404 Climate Physics or PHYS 404 Climate Physics..

6-7 credits (3 credits must be an ATOC course) selected from:

Expand all Contract all

Course	Title	Credits
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3
ATOC 558	Numerical Methods and Laboratory.	3
ATOC 568	Ocean Physics.	3
ESYS 300	Earth Data Analysis.	3
ESYS 301	Earth System Modelling.	3
MATH 423	Applied Regression. 1	3
MATH 555	Fluid Dynamics.	4

If chosen, students may take either ATOC 404 Climate Physics or PHYS 404 Climate Physics..

ATOC 557		Research Methods: Atmospheric and Oceanic Science.	3	Expand all	Contract all	
				Course	Title	Credits
ATOC 558	Numerical Methods and Laboratory.		3	ATOC 309	Weather Radars and Satellites. <small>1</small>	3
ATOC 568	Ocean Physics.		3	ATOC 404	Climate Physics.	3
ESYS 300	Earth Data Analysis.		3	ATOC 512	Atmospheric and Oceanic Dynamics.	3
ESYS 301	Earth System Modelling.		3	ATOC 513	Waves and Stability.	3
MATH 423	Applied Regression. <small>1</small>		3	ATOC 517	Boundary Layer Meteorology .	3
MATH 555	Fluid Dynamics.		4	ATOC 519	Advances in Chemistry of Atmosphere.	3

			Credits	
		Course	Title	Credits
ATOC 521	Cloud Physics.	3	ATOC 512	Atmospheric and Oceanic Dynamics.
ATOC 525	Atmospheric Radiation.	3	ATOC 521	Cloud Physics.
ATOC 531	Dynamics of Current Climates.	3	ATOC 531	Dynamics of Current Climates.
ATOC 540	Synoptic Meteorology 1.	3	ATOC 540	Synoptic Meteorology 1.
ATOC 541	Synoptic Meteorology 2.	3	ATOC 541	Synoptic Meteorology 2.
ATOC 546	Current Weather Discussion.	1		
ATOC 548	Mesoscale Meteorology.	3		
ATOC 557	Research Methods: Atmospheric and Oceanic Science.	3		
ATOC 558	Numerical Methods and Laboratory.	3		
ATOC 568	Ocean Physics.	3		
CHEM 367	Instrumental Analysis 1.	3		
CHEM 575	Chemical Kinetics.	3		
ESYS 300	Earth Data Analysis.	3		
ESYS 301	Earth System Modelling.	3		
MATH 423	Applied Regression.	3		
MATH 555	Fluid Dynamics. ²	4		
PHYS 404	Climate Physics. ¹	3		
PHYS 432	Physics of Fluids. ²	3		
PHYS 512	Computational Physics with Applications.	3		

¹ If chosen, students may take either ATOC 404 Climate Physics. or
² PHYS 404 Climate Physics..

If chosen, students may take either PHYS 432 Physics of Fluids. or
 MATH 555 Fluid Dynamics..

Meteorology (Dip.) (30 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Diploma in Meteorology

Program credit weight: 30

Program Description

The Department offers an intensive, one-year program in theoretical and applied meteorology to B.Sc. or B.Eng. graduates of suitable standing in physics, applied mathematics or other appropriate disciplines, leading to a Diploma in Meteorology. The program is designed for students with little or no previous background in meteorology who wish to direct their experience to atmospheric or environmental applications, or who need to fulfill academic prerequisites in meteorology to qualify for employment. For further information, contact the Undergraduate Program Director (<https://www.mcgill.ca/meteo/facultystaff/staff>)

An exemption of up to 6 credits may be allowed for courses already taken. Students granted such exemptions are required to add complementary courses from an approved list to maintain a total credit count of 30 completed at McGill.

Required Courses (15 credits)

Expand allContract all

			Credits	
		Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3	ATOC 309	Weather Radars and Satellites.
ATOC 521	Cloud Physics.	3	ATOC 315	Thermodynamics and Convection.
ATOC 531	Dynamics of Current Climates.	3	ATOC 519	Advances in Chemistry of Atmosphere. or CHEM 519 Advances in Chemistry of Atmosphere.
ATOC 540	Synoptic Meteorology 1.	3		
ATOC 541	Synoptic Meteorology 2.	3		
				6 credits selected from the courses below.
				Expand allContract all
		Course	Title	Credits
ATOC 309	Weather Radars and Satellites.	3	ATOC 513	Waves and Stability.
ATOC 315	Thermodynamics and Convection.	3	ATOC 515	Turbulence in Atmosphere and Oceans.
ATOC 519	Advances in Chemistry of Atmosphere. or CHEM 519 Advances in Chemistry of Atmosphere.	3	ATOC 517	Boundary Layer Meteorology .
			ATOC 525	Atmospheric Radiation.
			ATOC 548	Mesoscale Meteorology.
			ATOC 557	Research Methods: Atmospheric and Oceanic Science.
			MATH 317	Numerical Analysis.
			MATH 319	Partial Differential Equations . ¹
			MATH 555	Fluid Dynamics. ¹
			PHYS 331	Topics in Classical Mechanics.
			PHYS 340	Majors Electricity and Magnetism.
			PHYS 342	Majors Electromagnetic Waves. ¹
			PHYS 432	Physics of Fluids. ¹

¹ Students take either PHYS 432 Physics of Fluids. or MATH 555 Fluid Dynamics..

Biochemistry Liberal Program - Core Science Component (B.Sc.) (47 credits)

Offered by: Biochemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 47

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Courses

U1 Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOC 220	Laboratory Methods in Biochemistry and Molecular Biology 1.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4

¹ Students with CEGEP-level credit for CHEM 242 Organic Chemistry 1 for Chemistry and Biochemistry. and/or CHEM 252 Organic Chemistry 2 for Chemistry and Biochemistry. should replace these courses with elective courses.

U1 Complementary Courses (6 credits)

Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

6 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 205	Functional Biology of Plants and Animals.	3
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

U2 Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3

BIOC 320	Laboratory Methods in Biochemistry and Molecular Biology 2.	3
CHEM 302	Introductory Organic Chemistry 3.	3

U2 Complementary Courses (3 credits)

Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

3 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
CHEM 267	Introductory Chemical Analysis.	3
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
MATH 203	Principles of Statistics 1.	3
MATH 222	Calculus 3.	3
PSYC 204	Introduction to Psychological Statistics.	3

U3 Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3

Biochemistry Major (B.Sc.) (64 credits)

Offered by: Biochemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 64

Program Description

Students may transfer into the Major program at any time, provided they have met all course requirements.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Courses

U1 Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOC 220	Laboratory Methods in Biochemistry and Molecular Biology 1.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4

¹

Note: Students with CEGEP-level credit for the equivalents of CHEM 212 Introductory Organic Chemistry 1. (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take this course at McGill and should replace it with 3 credits of an elective course to satisfy the total credit requirement for their degree.

U1 Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
BIOL 205	Functional Biology of Plants and Animals.	3	BIOL 300	Molecular Biology of the Gene.	3
MIMM 211	Introductory Microbiology.	3	BIOL 303	Developmental Biology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3	BIOL 304	Evolution.	3
PHGY 209	Mammalian Physiology 1.	3	BIOL 313	Eukaryotic Cell Biology.	3
PHGY 210	Mammalian Physiology 2.	3	BIOL 314	Molecular Biology of Cancer.	3
			CHEM 267	Introductory Chemical Analysis.	3
			CHEM 482	Organic Chemistry: Natural Products.	3
			CHEM 502	Advanced Bio-Organic Chemistry.	3
			CHEM 532	Structural Organic Chemistry.	3
			CHEM 552	Physical Organic Chemistry.	3
			CHEM 572	Synthetic Organic Chemistry.	3
			EXMD 502	Advanced Endocrinology 1.	3
			MIMM 324	Fundamental Virology.	3
			PHAR 300	Drug Action.	3
			PHGY 311	Channels, Synapses and Hormones.	3

U2 Required Courses (20 credits)

Expand allContract all

Course	Title	Credits
ANAT 262	Introductory Molecular and Cell Biology.	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 320	Laboratory Methods in Biochemistry and Molecular Biology 2.	3
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 362	Advanced Organic Chemistry Laboratory.	2

U2 Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3

CHEM 267	Introductory Chemical Analysis.	3
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
MATH 203	Principles of Statistics 1.	3
MATH 222	Calculus 3.	3
PSYC 204	Introduction to Psychological Statistics.	3

U3 Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3

U3 Complementary Courses (6 credits)

3-6 credits selected from:

Expand allContract all

Course	Title	Credits
BIOC 458	Membranes and Cellular Signaling.	3
BIOC 470	Lipids and Lipoproteins in Disease.	3
BIOC 491	Independent Research.	6
BIOC 503	Biochemistry of Immune Diseases.	3

The remainder, if any, to be selected from the following list:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
CHEM 267	Introductory Chemical Analysis.	3
CHEM 482	Organic Chemistry: Natural Products.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 532	Structural Organic Chemistry.	3
CHEM 552	Physical Organic Chemistry.	3
CHEM 572	Synthetic Organic Chemistry.	3
EXMD 502	Advanced Endocrinology 1.	3
MIMM 324	Fundamental Virology.	3
PHAR 300	Drug Action.	3
PHGY 311	Channels, Synapses and Hormones.	3

Biochemistry Honours (B.Sc.) (73 credits)

Offered by: Biochemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 73

Program Description

Admission to the Honours program will not be granted until U2. Students who wish to enter the Honours program in U2 should follow the U1 Major program. Those who satisfactorily complete the U1 Major program with a GPA of at least 3.20 and a mark of B- or better in every required course are eligible for admission to the Honours program.

Students seeking admission to the Honours program must obtain permission from the Departmental Student Affairs Officer, Christine Laberge (christine.laberge@mcgill.ca), during the Add/Drop period in September of their second year.

Promotion to U3 year is based on satisfactory completion of U2 courses with a GPA of at least 3.20 and a mark of B- or better in every required course. In borderline cases, the marks received in BIOC 311 Metabolic Biochemistry, and BIOC 312 Biochemistry of Macromolecules, will be of particular importance for continuation in the U3 Honours year.

For graduation in the Honours program, students must complete a minimum of 90 credits, pass all required courses with no grade less than B-, and achieve a CGPA of at least 3.20.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Courses

U1 Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOC 220	Laboratory Methods in Biochemistry and Molecular Biology 1.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4

¹ Note: Students with CEGEP-level credit for the equivalents of CHEM 212 Introductory Organic Chemistry 1. (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take this course at McGill and should replace

it with 3 credits of an elective course to satisfy the total credit requirement for their degree.

U1 Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 205	Functional Biology of Plants and Animals.	3
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

U2 Required Courses (20 credits)

Expand allContract all

Course	Title	Credits
ANAT 262	Introductory Molecular and Cell Biology.	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 320	Laboratory Methods in Biochemistry and Molecular Biology 2.	3
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 362	Advanced Organic Chemistry Laboratory.	2

U2 Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3
CHEM 267	Introductory Chemical Analysis.	3
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
MATH 203	Principles of Statistics 1.	3
MATH 222	Calculus 3.	3
PSYC 204	Introduction to Psychological Statistics.	3

U3 Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
BIOC 404	Biophysical Methods in Biochemistry.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3
BIOC 462	Research Laboratory in Biochemistry.	6

U3 Complementary Courses (6 credits)

3-6 credits selected from:

Expand allContract all

Course	Title	Credits			
BIOC 458	Membranes and Cellular Signaling.	3	BIOL 202	Basic Genetics.	3
BIOC 470	Lipids and Lipoproteins in Disease.	3	BIOL 205	Functional Biology of Plants and Animals.	3
BIOC 491	Independent Research.	6	BIOL 215	Introduction to Ecology and Evolution.	3
BIOC 503	Biochemistry of Immune Diseases.	3			

The remainder, if any, to be selected from the following list:

Expand allContract all

Course	Title	Credits			Credits
BIOL 300	Molecular Biology of the Gene.	3	CHEM 212	Introductory Organic Chemistry 1.	1
BIOL 303	Developmental Biology.	3			4
BIOL 304	Evolution.	3			
BIOL 313	Eukaryotic Cell Biology.	3			
BIOL 314	Molecular Biology of Cancer.	3			
CHEM 267	Introductory Chemical Analysis.	3			
CHEM 482	Organic Chemistry: Natural Products.	3			
CHEM 502	Advanced Bio-Organic Chemistry.	3			
CHEM 532	Structural Organic Chemistry.	3			
CHEM 552	Physical Organic Chemistry.	3			
CHEM 572	Synthetic Organic Chemistry.	3			
EXMD 502	Advanced Endocrinology 1.	3			
EXMD 503	Advanced Endocrinology 02.	3			
MIMM 324	Fundamental Virology.	3			
PHAR 300	Drug Action.	3			
PHGY 311	Channels, Synapses and Hormones.	3			

Biology Minor (B.Sc.) (25 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 25

Program Description

The Minor Biology may be taken in conjunction with any primary program in the Faculty of Science (other than programs offered by the Department of Biology). Students are advised to consult the undergraduate adviser in Biology as early as possible (preferably during their first year), in order to plan their course selection.

See Nancy Nelson, Stewart Biology Building, 514-398-4109, email: nancy.nelson@mcgill.ca.

6 credits of overlap are allowed between the Minor and the primary program.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3

Complementary Courses (10 credits)

Students complete a minimum of 9 or a maximum of 10 complementary course credits depending on their choice of complementary courses.

To include:

Expand allContract all

Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	1

¹ Students who have already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent will choose another appropriate course, to be approved by the Biology Adviser.

Plus an additional two courses from the Biology department's course offerings, at the 300 level or above.

Biology, Liberal Program - Core Science Component (47 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 47

Program Description

The Liberal Program - Core Science Component Biology is a flexible program focusing on the fundamentals of biology. Topics include a range of biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution. This program is well suited to students with varied interests who do not want to focus solely on biology in their studies.

Students may complete this program with a minimum of 45 credits or a maximum of 47 credits depending on their choice of complementary courses.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 216	Biology of Behaviour.	3
BIOL 302	Fundamentals of Genetics and Genomics.	3
COMP 204	Computer Programming for Life Sciences.	3

Complementary Courses (21-23 credits)

Core (6-8 credits)

3 or 4 credits selected from:

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ If a student has already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent, the credits can be made up with CHEM 204 Physical Chemistry/Biological Sciences 1., CHEM 222 Introductory Organic Chemistry 2., or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

3 or 4 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 311	Advanced Methods in Organismal Biology.	3

Other (15 credits)

15 credits of Biology complementary courses at the 300-500 levels, including at least 3 credits at the 400-500 levels. Up to 6 credits may be from non-BIOL science courses, with Adviser permission. Up to 6 credits of independent research may be included.

Biology (B.Sc.) (59 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 59

Program Description

The Biology Major covers a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution. The areas of focus include:

1. molecular, cellular and developmental biology,
2. conservation, ecology and evolution, and
3. neurobiology and behaviour.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (31 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 216	Biology of Behaviour.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 302	Fundamentals of Genetics and Genomics.	3
BIOL 311	Advanced Methods in Organismal Biology.	3
COMP 204	Computer Programming for Life Sciences.	3

Complementary Courses (27-28 credits)

Core (12-13 credits)

3 or 4 credits selected from CHEM block:

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4

¹ If a student has already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent, the credits can be made up with CHEM 204 Physical Chemistry/Biological Sciences 1., or CHEM 222 Introductory Organic Chemistry 2., or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

9 credits (3 credits from each of Blocks A, B and C):

Block A-Ecology and Evolution

Expand allContract all

Course	Title	Credits	
BIOL 304	Evolution.	3	To graduate, students must satisfy both their program requirements and their degree requirements.
BIOL 305	Animal Diversity.	3	The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
BIOL 308	Ecological Dynamics.	3	The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Block B-Molecular and Cellular

Expand allContract all

Course	Title	Credits	
BIOL 300	Molecular Biology of the Gene.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
BIOL 303	Developmental Biology.	3	
BIOL 313	Eukaryotic Cell Biology.	3	

Block C-Neuro/Behaviour

Expand allContract all

Course	Title	Credits	
BIOL 306	Neural Basis of Behaviour.	3	
BIOL 307	Behavioural Ecology.	3	

Other (15 credits)

15 credits other Biology courses at the 300-500 levels, of which 6 credits must be at the 400-500 levels; may include up to 6 credits of research, and may include up to 6 credits of other non-BIOL science courses subject to Adviser approval.

Biology - Quantitative Biology Major (B.Sc.) (73 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 73

Program Description

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological questions. The program has two options: an ecology and evolutionary biology stream, and a physical biology stream. Both streams provide a balance of theory and experimental components.

Students may complete this program with a minimum of 68 credits or a maximum of 73 credits depending on whether MATH 222 Calculus 3. and CHEM 212 Introductory Organic Chemistry 1. are completed.

Advising Notes for UO Students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

Required Courses (43 credits)

Bio-Physical Sciences Core (31 credits)

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1.	4
COMP 202	Foundations of Programming. ²	3
MATH 222	Calculus 3. ¹	3
MATH 223	Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1. or MATH 222 Calculus 3. can make up the credits with a complementary 3 or 4 credit course in consultation with a stream adviser.

² Students who have sufficient knowledge of programming should take COMP 250 Introduction to Computer Science. rather than COMP 202 Foundations of Programming..

Biology (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 215	Introduction to Ecology and Evolution.	3

Physics (6 credits)

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3

Course Requirements for Quantitative Biology Streams (21 credits)

21 credits from one of the following two streams:

Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)

Biology

Expand allContract all

Course	Title	Credits
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 304	Evolution.	3
BIOL 308	Ecological Dynamics.	3

Field Courses

3 credits from the following list or any other field course with permission:

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 432	Limnology.	3

6 credits chosen from the following list of courses at the 400 level or above:

Expand allContract all

Course	Title	Credits
BIOL 432	Limnology.	3
BIOL 435	Natural Selection.	3
BIOL 465	Conservation Biology.	3
BIOL 510	Advances in Community Ecology.	3
BIOL 515	Advances in Aquatic Ecology.	3
BIOL 540	Ecology of Species Invasions.	3
BIOL 594	Advanced Evolutionary Ecology.	3
BIOL 596	Advanced Experimental Design.	1

Stream 2: Physical Biology (21 credits)

Expand allContract all

Course	Title	Credits
BIOL 319	Introduction to Biophysics.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3
PHYS 346	Majors Quantum Physics.	3

300-level complementary courses: 6 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3

BIOL 309	Mathematical Models in Biology.	3
BIOL 313	Eukaryotic Cell Biology.	3

500-level complementary courses: 6 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 551	Principles of Cellular Control.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3

Complementary Courses

Quantitative Biology - Theoretical Ecology and Evolutionary Biology, and Physical Biology Streams

9 credits from the following:

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

Expand allContract all

Course	Title	Credits
BIOL 466	Independent Research Project 1.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 350	Numerical Computing. ¹	3
MATH 235	Algebra 1. ²	3
MATH 240	Discrete Structures.	3
MATH 314	Advanced Calculus. ¹	3
MATH 317	Numerical Analysis. ¹	3
MATH 319	Partial Differential Equations.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 348	Euclidean Geometry.	3
MATH 437	Mathematical Methods in Biology.	3
MATH 447	Introduction to Stochastic Processes.	3

¹ Students may take COMP 350 Numerical Computing. OR MATH 317

² Numerical Analysis..

MATH 235 Algebra 1. or MATH 240 Discrete Structures. are required for COMP 251 Algorithms and Data Structures..

Recommendations for Physical Biology stream

Expand allContract all

Course	Title	Credits
BIEN 310	Introduction to Biomolecular Engineering.	3
BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3

BIEN 340	Transport Phenomena in Biological Systems 2.	3	• The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3	
BIEN 530	Imaging and Bioanalytical Instrumentation.	3	
CHEM 222	Introductory Organic Chemistry 2. ¹	4	
PHYS 242	Electricity and Magnetism.	2	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.
PHYS 257	Experimental Methods 1.	3	
PHYS 342	Majors Electromagnetic Waves.	3	Advising notes for UO students: It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Advisor to ensure they meet the core requirements of the program. This program is recommended for U1 students achieving a CGPA of 3.2 or better, and entering CEGEP students with a Math/ Science R-score of 28.0 or better.
PHYS 434	Optics.	3	
PHYS 519	Advanced Biophysics.	3	
PHYS 534	Nanoscience and Nanotechnology.	3	

¹ PHYS 242 Electricity and Magnetism. is required for PHYS 342 Majors Electromagnetic Waves. and PHYS 434 Optics..

Recommendations for Theoretical Ecology and Evolutionary Biology stream

Expand allContract all

Course	Title	Credits
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 324	Ecological Genetics.	3
MATH 242	Analysis 1.	3
MATH 340	Discrete Mathematics.	3
MATH 423	Applied Regression.	3
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
PHYS 329	Statistical Physics with Biophysical Applications.	3

Biology and Mathematics Major (B.Sc.) (76 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 76

Program Description

This program is built on a selection of mathematics and biology courses that recognize mathematical biology as a field of research, with two quantitative streams: Applied Mathematics and Statistics; and three streams within biology: Ecology and Evolutionary Biology, Molecular Evolution, and Neurosciences.

Degree Requirements — B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Required Courses (37 credits)

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1. ¹	4
COMP 202	Foundations of Programming. ²	3
COMP 204	Computer Programming for Life Sciences. ¹	3
MATH 222	Calculus 3. ²	3
MATH 223	Linear Algebra. ³	3
MATH 247	Honours Applied Linear Algebra. ³	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3

¹ If a student has already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent, or MATH 222 Calculus 3. or its

² equivalent, the credits can be made up with elective credits. Students may take either COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences. Students who have sufficient knowledge in a programming language should take COMP 250 Introduction to Computer Science. rather than COMP 202.

³ Students may take either MATH 223 Linear Algebra. or MATH 247 Honours Applied Linear Algebra..

Biology and Mathematics Core

Expand allContract all

Course	Title	Credits
BIOL 215	Introduction to Ecology and Evolution.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3

Complementary Courses (39 credits)

For the 39 credits, students complete 21 credits of BIOL, NEUR, PHGY, PSYC courses including one of three streams (Ecology and Evolutionary Ecology, Molecular Evolution, Neurosciences) and 18 credits of MATH courses.

Math or Biology Research Course

Note: Students selecting a BIOL course count this toward their 21 credits of BIOL, NEUR, PHGY, PSYC courses while students selecting a MATH course count this toward their 18 credits of MATH courses.

3-6 credits from the following Math or Biology research courses:

Expand allContract all

Course	Title	Credits
BIOL 466	Independent Research Project 1.	3
BIOL 467	Independent Research Project 2.	3
BIOL 468	Independent Research Project 3.	6
MATH 410	Majors Project.	3

Of the remaining complementary courses, at least 6 credits must be at the 400 level or above.

Math Courses

15 credits (if MATH 410 Majors Project. was selected as a research course) or 18 credits of MATH courses chosen from Stream 1 or 2 and from "Remaining Math Courses" as follows:

Stream 1: Applied Mathematics

9-12 credits from the following courses:

Expand allContract all

Course	Title	Credits
MATH 314	Advanced Calculus.	3
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 326	Nonlinear Dynamics and Chaos.	3

Stream 2: Statistics

9-12 credits from the following:

Expand allContract all

Course	Title	Credits
MATH 208	Introduction to Statistical Computing.	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3
MATH 447	Introduction to Stochastic Processes.	3

Remaining Math Courses

Remaining 3-9 credits of MATH courses may be chosen from any of the two preceding sequences and/or from the following list:

Expand allContract all

Course	Title	Credits
COMP 551	Applied Machine Learning.	4
MATH 204	Principles of Statistics 2.	3

MATH 308	Fundamentals of Statistical Learning.	3
MATH 340	Discrete Mathematics.	3
MATH 437	Mathematical Methods in Biology.	3
MATH 463	Convex Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

BIOL, NEUR, PHGY, PHYS, PSYC Courses

18 credits (if 3 credit BIOL course was selected as a research course) or 15 credits (if 6 credit BIOL research course was selected) of BIOL, NEUR, PHGY, PHYS, PSYC courses including one of three streams.

Note: Some courses in the streams may have prerequisites.

Ecology and Evolutionary Biology Stream

15-21 credits selected as follows:

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 206	Methods in Biology.	3

3 credits from the following field courses or any other field course with permission:

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 334D1	Applied Tropical Ecology.	1.5
BIOL 334D2	Applied Tropical Ecology.	1.5
BIOL 432	Limnology.	3
BIOL 573	Vertebrate Palaeontology Field Course.	3

9-15 credits from:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics. ¹	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 302	Fundamentals of Genetics and Genomics. ¹	3
BIOL 304	Evolution.	3
BIOL 305	Animal Diversity.	3
BIOL 308	Ecological Dynamics.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 324	Ecological Genetics.	3
BIOL 569	Developmental Evolution.	3
BIOL 594	Advanced Evolutionary Ecology.	3

¹ If chosen, students may take either BIOL 202 Basic Genetics or BIOL 302 Fundamentals of Genetics and Genomics.

Molecular Evolution Stream

15-21 credits selected as follows:

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 302	Fundamentals of Genetics and Genomics.	3

12-18 credits selected from the following list:

Expand allContract all

Course	Title	Credits
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 569	Developmental Evolution.	3
BIOL 592	Integrated Bioinformatics.	3

Neurosciences Stream

15-21 credits selected as follows:

6 credits from:

Expand allContract all

Course	Title	Credits
BIOL 216	Biology of Behaviour.	3
BIOL 306	Neural Basis of Behaviour.	3

9-15 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 320	Evolution of Brain and Behaviour.	3
BIOL 389	Laboratory in Neurobiology.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 580	Genetic Approaches to Neural Systems.	3
NEUR 310	Cellular Neurobiology.	3
NEUR 507	Topics in Radionuclide Imaging.	3
PHGY 314	Integrative Neuroscience.	3
PHGY 425	Analyzing Physiological Systems.	3
PSYC 427	Sensorimotor Neuroscience.	3

Remaining BIOL, NEUR, PHGY, PSYC

For the remaining BIOL, NEUR, PHGY, PSYC complementary course credits, if any, students top up their credits to the necessary 18-21 credits with any course listed in the above three streams. Other relevant courses may be substituted with the approval of the Program Advisor.

Biology Honours (B.Sc.) (72 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 72

Program Description

The Honours program in Biology is intended for students who are interested in gaining a concentrated research experience. A broad range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution is supplemented with research in a chosen area. Potential areas of focus include:

1. molecular, cellular and developmental biology,
2. conservation, ecology and evolution, and
3. neurobiology and behaviour.

Acceptance into the Honours program at the end of U2 requires a CGPA of 3.50 and approval of a 9- or 12-credit Independent Studies proposal (see listing of BIOL 479D1 Honours Research Project 1./BIOL 479D2 Honours Research Project 1., BIOL 480D1 Honours Research Project 2./BIOL 480D2 Honours Research Project 2. for details). For an Honours degree, a minimum CGPA of 3.50 at Graduation and adherence to the program as outlined below are the additional requirements.

First Class Honours will be awarded to students graduating with a CGPA of 3.75 or better, and having successfully completed the Honours program

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (35 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 216	Biology of Behaviour.	3

BIOL 301	Cell and Molecular Laboratory.	4
BIOL 302	Fundamentals of Genetics and Genomics.	3
BIOL 311	Advanced Methods in Organismal Biology.	3
BIOL 499D1	Honours Seminar in Biology.	2
BIOL 499D2	Honours Seminar in Biology.	2
COMP 204	Computer Programming for Life Sciences.	3

Complementary Courses (36-37 credits)

Core (12-13 credits)

3 or 4 credits selected from CHEM block:

Expand allContract all			
Course	Title	Credits	
CHEM 204	Physical Chemistry/Biological Sciences 1.	3	
CHEM 212	Introductory Organic Chemistry 1.	4	

¹ If a student has already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent, the credits can be made up with CHEM 204 Physical Chemistry/Biological Sciences 1., CHEM 222 Introductory Organic Chemistry 2., or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

9 credits (3 credits from each of Block A, Block B and Block C):

Block A- Ecology and Evolution

Expand allContract all

Course	Title	Credits
BIOL 304	Evolution.	3
BIOL 305	Animal Diversity.	3
BIOL 308	Ecological Dynamics.	3

Block B- Molecular and Cellular

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 313	Eukaryotic Cell Biology.	3

Block C-Neuro/Behaviour

Expand allContract all

Course	Title	Credits
BIOL 306	Neural Basis of Behaviour.	3
BIOL 307	Behavioural Ecology.	3

Honours Block (9-12 credits)

Expand allContract all

Course	Title	Credits
BIOL 479D1	Honours Research Project 1.	4.5
BIOL 479D2	Honours Research Project 1.	4.5

OR

Expand allContract all

Course	Title	Credits
BIOL 480D1	Honours Research Project 2.	6
BIOL 480D2	Honours Research Project 2.	6

Other (12-15 credits)

15 credits of Biology courses at the 300-500 levels if taking BIOL 479D1 Honours Research Project 1./BIOL 479D2 Honours Research Project 1., or 12 credits if taking BIOL 480D1 Honours Research Project 2./BIOL 480D2 Honours Research Project 2.. With permission of the Biology Adviser, up to 6 credits may be taken from other science department courses (300-500 levels). Up to 3 credits of previous independent research courses may be included. Must include 6 credits of 400-500 levels.

Biology - Quantitative Biology Honours (B.Sc.) (79 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 79

Program Description

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology (QB) Honours option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological questions through both coursework and a research project. The QB B.Sc. Honours option has two streams: a theoretical ecology and evolutionary biology stream and a physical biology stream. Both streams provide a balance of theory and experimental components that along with a research component will provide outstanding preparation for graduate training. Students must attain a 3.50 CGPA to enter and to complete the Honours program. First Class Honours will be awarded to students in the QB Honours option graduating with a CGPA of 3.75 or greater.

Students may complete this program with a minimum of 74 credits or a maximum of 79 credits depending on whether MATH 222 Calculus 3. and CHEM 212 Introductory Organic Chemistry 1. are completed.

Advising Notes for U0 students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (49 credits)

Bio-Physical Sciences Core (31 credits)

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1.	1
COMP 202	Foundations of Programming.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 247	Honours Applied Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1. or MATH 222 Calculus 3. can make up the credits with complementary 3 or 4 credit courses in consultation with a stream adviser.

² Students who have sufficient knowledge of programming should take COMP 250 Introduction to Computer Science. rather than COMP 202 Foundations of Programming..

³ Students take MATH 223 Linear Algebra. or MATH 247 Honours Applied Linear Algebra..

⁴ Students take MATH 315 Ordinary Differential Equations. or MATH 325 Honours Ordinary Differential Equations..

⁵ Students take MATH 323 Probability. or MATH 356 Honours Probability..

⁶ Students take MATH 324 Statistics. or MATH 357 Honours Statistics..

Note: 6 credits of either MATH or PHYS courses to be taken at the honours level. Honours equivalents of core Math and Physics courses are listed. All 500-level Math courses are considered as honours courses and can be applied to the 6 credit requirement.

Biology (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 215	Introduction to Ecology and Evolution.	3

Research Component (6 credits)

BIOL 468 Independent Research Project 3.

Physics (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems. ¹	3
PHYS 232	Heat and Waves. ²	3
PHYS 251	Honours Classical Mechanics 1. ¹	3
PHYS 253	Thermal Physics. ²	3

¹ Students take PHYS 230 Dynamics of Simple Systems. or PHYS 251

² Honours Classical Mechanics 1..

Students take PHYS 232 Heat and Waves. or PHYS 253 Thermal Physics..

Course Requirements for Quantitative Biology Streams

21 credits from one of the following two streams:

Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)

Biology

12 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 304	Evolution.	3
BIOL 308	Ecological Dynamics.	3

Field Courses

3 credits from the following list or any other field course with permission:

Expand allContract all

Course	Title	Credits
BIOL 240	Monteregian Flora.	3
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 432	Limnology.	3

6 credits chosen from the following list of courses at the 400 level or above:

Expand allContract all

Course	Title	Credits
BIOL 432	Limnology.	3
BIOL 435	Natural Selection.	3
BIOL 465	Conservation Biology.	3
BIOL 510	Advances in Community Ecology.	3
BIOL 515	Advances in Aquatic Ecology.	3

BIOL 540	Ecology of Species Invasions.	3	MATH 235	Algebra 1. ²	3
BIOL 594	Advanced Evolutionary Ecology.	3	MATH 240	Discrete Structures. ²	3

Stream 2: Physical Biology

21 credits

9 credits from:

Expand allContract all

Course	Title	Credits
BIOL 319	Introduction to Biophysics. ¹	3
PHYS 319	Introduction to Biophysics.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3
PHYS 346	Majors Quantum Physics.	3

¹ Students choose either BIOL 319 Introduction to Biophysics. or PHYS 319 Introduction to Biophysics.

300-level complementary courses

6 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 313	Eukaryotic Cell Biology.	3

500-level complementary courses

6 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 551	Principles of Cellular Control.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3

Complementary Courses (9 credits)

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures. ¹	3
COMP 350	Numerical Computing.	3

MATH 235	Algebra 1. ²	3
MATH 240	Discrete Structures. ²	3
MATH 314	Advanced Calculus.	3
MATH 317	Numerical Analysis. ¹	3
MATH 319	Partial Differential Equations.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 348	Euclidean Geometry.	3
MATH 437	Mathematical Methods in Biology.	3
MATH 447	Introduction to Stochastic Processes.	3

¹ Students may take COMP 350 Numerical Computing. OR MATH 317

² Numerical Analysis..
MATH 235 Algebra 1. or MATH 240 Discrete Structures. are required for COMP 251 Algorithms and Data Structures..

Recommendations for Physical Biology stream

Expand allContract all

Course	Title	Credits
BIEN 310	Introduction to Biomolecular Engineering.	3
BIEN 320	Molecular, Cellular and Tissue Biomechanics.	3
BIEN 340	Transport Phenomena in Biological Systems 2.	3
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
CHEM 222	Introductory Organic Chemistry 2. ¹	4
PHYS 242	Electricity and Magnetism.	2
PHYS 257	Experimental Methods 1.	3
PHYS 342	Majors Electromagnetic Waves.	3
PHYS 434	Optics.	3
PHYS 519	Advanced Biophysics.	3
PHYS 534	Nanoscience and Nanotechnology.	3

¹ PHYS 242 Electricity and Magnetism. is required for PHYS 342 Majors Electromagnetic Waves. and PHYS 434 Optics..

Recommendations for Theoretical Ecology and Evolutionary Biology stream

Expand allContract all

Course	Title	Credits
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 324	Ecological Genetics.	3
MATH 242	Analysis 1.	3
MATH 340	Discrete Mathematics.	3
MATH 423	Applied Regression.	3
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
PHYS 329	Statistical Physics with Biophysical Applications.	3

Biotechnology (for Science Students) Minor (B.Sc.) (24 credits)

Offered by: Biology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

To obtain the Minor Biotechnology, Science students must:

1. satisfy both the requirements for the departmental program and for the Minor;
2. complete 24 credits, 18 of which must be exclusively for the Minor program.

¹ Approved substitutions must be made for any of the required courses which are part of the student's main program.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function. ¹	3
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
BIOL 202	Basic Genetics.	3
BIOT 505	Selected Topics in Biotechnology.	3
MIMM 211	Introductory Microbiology.	3

¹ Students may take either BIOL 201 Cell Biology and Metabolism. or BIOC 212 Molecular Mechanisms of Cell Function..

Complementary Courses (9 credits)

9 credits selected from courses outside the department of the student's main program. Students may select three courses from one of the lists below, or may choose three alternate courses with adviser approval.

Biomedicine

Expand allContract all

Course	Title	Credits
ANAT 541	Cell and Molecular Biology of Aging.	3
EXMD 504	Biology of Cancer.	3
PATH 300	Human Disease.	3

Chemical Engineering

Expand allContract all

Course	Title	Credits
CHEE 200	Chemical Engineering Principles 1.	3
CHEE 204	Chemical Engineering Principles 2.	3
CHEE 474	Biochemical Engineering.	3

Chemistry

Expand allContract all

Course	Title	Credits
CHEM 482	Organic Chemistry: Natural Products.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 552	Physical Organic Chemistry.	3

General

Expand allContract all

Course	Title	Credits
FACC 300	Engineering Economy.	3

Immunology

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
BIOC 503	Biochemistry of Immune Diseases.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 414	Advanced Immunology.	3
PHGY 513	Translational Immunology.	3

Management

Expand allContract all

Course	Title	Credits
ECON 208	Microeconomic Analysis and Applications.	3
MGCR 211	Introduction to Financial Accounting.	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3

Microbiology

Expand allContract all

Course	Title	Credits
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 413	Parasitology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3

Molecular Biology (Biology)

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 520	Gene Activity in Development.	3

BIOL 524	Topics in Molecular Biology.	3	CHEE 315	Heat and Mass Transfer.	3
BIOL 551	Principles of Cellular Control.	3	CHEE 351	Separation Processes.	3

Molecular Biology (Biochemistry)

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3

Physiology

Expand allContract all

Course	Title	Credits
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
EXMD 502	Advanced Endocrinology 1.	3
EXMD 503	Advanced Endocrinology 02.	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHGY 518	Artificial Cells.	3

Pollution

Expand allContract all

Course	Title	Credits
CHEE 593	Industrial Water Pollution Control.	3
CIVE 225	Environmental Engineering.	4
CIVE 430	Water Treatment and Pollution Control.	3
CIVE 557	Microbiology for Environmental Engineering.	3

Chemical Engineering Minor (B.Sc.) (24 credits)

Offered by: Chemical Engineering (Faculty of Science)**Degree:** Bachelor of Science**Program credit weight:** 24

Program Description

The B.Sc.; Minor in Chemical Engineering is designed for Chemistry students who wish to study the problems of process engineering and its related subjects, and the important link between molecular sciences and industrial processing. This Minor will not provide requirements for registration as a licensed (professional) engineer.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
CHEE 200	Chemical Engineering Principles 1.	3
CHEE 204	Chemical Engineering Principles 2.	3
CHEE 220	Chemical Engineering Thermodynamics.	3
CHEE 314	Fluid Mechanics.	3

Complementary Courses (6 credits)

6 credits selected from any undergraduate courses offered by Chemical Engineering, excluding the following courses: CHEE 456 Design Project., CHEE 494 Research Project and Seminar 1., CHEE 495 Research Project and Seminar 2. and CHEE 496 Environmental Research Project..

Chemistry Minor (B.Sc.) (20 credits)

Offered by: Chemistry (Faculty of Science)**Degree:** Bachelor of Science; Bachelor of Arts and Science**Program credit weight:** 20

Program Description

The goal of this minor program is to provide interested B.Sc. students with a good grounding in chemistry through an introduction to one of the traditional sub-disciplines in chemistry (analytical, inorganic, organic, and physical).

Required Courses (13 credits)

If any of the required courses are part of your primary program or were taken at CEGEP, then they must be substituted by courses from the minor options list that are not part of your primary program. The total number of credits exclusive to the minor is at least 19.

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 281	Inorganic Chemistry 1.	3

¹ Denotes courses with CEGEP equivalents.

Complementary Courses

6-7 credits

Expand allContract all

Course	Title	Credits
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
CHEM 219	Introduction to Atmospheric Chemistry.	3
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 334	Advanced Materials.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 462	Green Chemistry.	3

- ¹ Any level 300-500 CHEM course can be substituted for courses within this list.

Chemistry - General Liberal Program - Core Science Component (B.Sc.) (49 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 49

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 101 Introductory Physics - Mechanics./PHYS 102 Introductory Physics - Electromagnetism. or PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Basic Core Courses (43 credits)

The Liberal Program: Core Science Component Chemistry - General Option is not certified by the Ordre des chimistes du Québec. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

A computer science course, either COMP 202 Foundations of Programming. or COMP 208 Computer Programming for Physical Sciences and Engineering ., is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter.

Completion of Mathematics MATH 222 Calculus 3. during U1 is strongly recommended.

Expand allContract all

Course	Title	Credits
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 381	Inorganic Chemistry 2.	3
MATH 222	Calculus 3.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 392	Experimental Chemistry 1.	3
PHYS 242	Electricity and Magnetism.	2

¹

Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

² Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Complementary Course (6 credits)

0-3 credits from:

Expand allContract all

Course	Title	Credits
CHEM 355	Applications of Quantum Chemistry.	3
MATH 315	Ordinary Differential Equations.	3

3-6 credits of Chemistry courses at the 300+ level.

Chemistry Major (B.Sc.) (59 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 59

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Students entering from the Freshman program must have included CHEM 110 and CHEM 120, BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 101/PHYS 102 or PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (53 credits)

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is also strongly recommended.

Expand allContract all

Course	Title	Credits
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 332	Biological Chemistry.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 365	Statistical Thermodynamics.	2
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 392	Experimental Chemistry 1.	3

CHEM 493	Advanced Physical Chemistry Laboratory.	2
MATH 222	Calculus 3.	3
PHYS 242	Electricity and Magnetism.	2

¹ Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

² Students who have successfully completed MATH 150 Calculus A.MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Complementary Courses (6 credits)

6 credits of Chemistry (CHEM) courses at the 400 level or higher, or MATH 315 plus 3 credits of Chemistry courses at the 400 level or higher.

Chemistry - Bio-organic Major (B.Sc.) (63 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 101 Introductory Physics - Mechanics./PHYS 102 Introductory Physics - Electromagnetism. or PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec

students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Courses (57 credits)

A computer science course, either COMP 202 Foundations of Programming, or COMP 208 Computer Programming for Physical Sciences and Engineering , is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 Calculus 3. during U1 is also strongly recommended.

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 392	Experimental Chemistry 1.	3
CHEM 493	Advanced Physical Chemistry Laboratory.	2
CHEM 502	Advanced Bio-Organic Chemistry. ²	3
MATH 222	Calculus 3. ²	3
PHYS 242	Electricity and Magnetism.	2

1

Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

2 Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Complementary Course (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 365	Statistical Thermodynamics.	2
MATH 315	Ordinary Differential Equations.	3
MIMM 211	Introductory Microbiology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

Chemistry: Biophysical Chemistry Major (B.Sc.) (66 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

This program trains students in the fundamentals of chemistry and develops the physical science, computational, and mathematical skills needed for advanced biophysical chemistry research in the biomedical and biotechnology industries. The program features integrative, interdisciplinary courses in bio-physical sciences. The program may be completed in 65 or 66 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Pre-Program Requirements: Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2.. BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 101 Introductory Physics - Mechanics./PHYS 102

Introductory Physics - Electromagnetism., PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Courses (59 credits)

Completion of Mathematics MATH 222 Calculus 3. and MATH 315 Ordinary Differential Equations. during U1 is strongly recommended.

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 319	Introduction to Biophysics.	3
BIOL 395	Quantitative Biology Seminar.	1
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry. ²	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3

¹ Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the program will not be eligible for admission to the Ordre des chimistes du Québec without additional chemistry electives.

This program is not currently accredited by the Canadian Society for Chemistry.

² Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3.

Chemistry

Expand allContract all

Course	Title	Credits
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3

CHEM 493	Advanced Physical Chemistry Laboratory.	2
PHYS 242	Electricity and Magnetism.	2

¹ Denotes courses with CEGEP equivalents.
The courses are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the program will not be eligible for admission to the Ordre des chimistes du Québec without additional chemistry electives.
This program is not currently accredited by the Canadian Society for Chemistry.

Complementary Courses

(6-7 credits)

3 credits of:

Course	Title	Credits
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 381	Inorganic Chemistry 2.	3

3-4 credits of:

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 316	Biomembranes and Organelles.	3
BIOL 551	Principles of Cellular Control.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 514	Biophysical Chemistry.	3
CHEM 520	Methods in Chemical Biology.	3
CHEM 555	Magnetic Resonance Spectroscopy.	3
CHEM 575	Chemical Kinetics.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

Chemistry Honours (B.Sc.) (71 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 71

Program Description

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 101 Introductory Physics - Mechanics./PHYS 102 Introductory Physics - Electromagnetism. or PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Courses (53 credits)

A computer science course, either COMP 202 Foundations of Programming. or COMP 208 Computer Programming for Physical Sciences and Engineering ., is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 Calculus 3. during U1 is also strongly recommended. Physics PHYS 242 Electricity and Magnetism. should be completed during U2.

Expand allContract all

Course	Title	Credits
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 332	Biological Chemistry.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 365	Statistical Thermodynamics.	2
CHEM 367	Instrumental Analysis 1.	3

CHEM 377	Instrumental Analysis 2.	3
CHEM 381	Inorganic Chemistry 2.	3
CHEM 392	Experimental Chemistry 1.	3
CHEM 493	Advanced Physical Chemistry Laboratory. ²	2
MATH 222	Calculus 3.	3
PHYS 242	Electricity and Magnetism.	2

¹ Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

² Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Complementary Courses (18 credits)

¹ 6 credits of research :

Expand allContract all

Course	Title	Credits
CHEM 470	Research Project 1.	6
CHEM 480	Undergraduate Research Project 2.	3

¹ Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

6 credits of Chemistry courses at the 300 level or higher, or MATH 315 Ordinary Differential Equations. plus 3 credits of Chemistry courses at the 300 level or higher, and

6 credits of Chemistry courses at the 400 level or higher.

Chemistry - Bio-organic Honours (B.Sc.) (75 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Pre-Program Prerequisites

Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 101 Introductory Physics - Mechanics./PHYS 102 Introductory Physics - Electromagnetism. or PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Courses (57 credits)

A computer science course, either COMP 202 Foundations of Programming. or COMP 208 Computer Programming for Physical Sciences and Engineering ., is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 Calculus 3. during U1 is also strongly recommended.

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 242	Organic Chemistry 1 for Chemistry and Biochemistry.	4
CHEM 252	Organic Chemistry 2 for Chemistry and Biochemistry.	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 381	Inorganic Chemistry 2.	3

CHEM 392	Experimental Chemistry 1.	3
CHEM 493	Advanced Physical Chemistry Laboratory.	2
CHEM 502	Advanced Bio-Organic Chemistry. ²	3
MATH 222	Calculus 3.	3
PHYS 242	Electricity and Magnetism.	2

¹

Denotes courses with CEGEP equivalents.

The courses are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

² Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Complementary Courses (18 credits)

¹
6 credits of research :

Expand allContract all

Course	Title	Credits
CHEM 470	Research Project 1.	6
CHEM 480	Undergraduate Research Project 2.	3

¹

Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

9 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 365	Statistical Thermodynamics.	2
MATH 315	Ordinary Differential Equations.	3
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

and 3 credits of additional Chemistry courses at the 400 level or higher.

Chemistry: Biophysical Chemistry Honours (B.Sc.) (75 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

This program trains students in the fundamentals of chemistry and develops the physical science, computational, and mathematical skills needed for advanced biophysical chemistry research in the biomedical and biotechnology industries. The program features integrative, interdisciplinary courses in bio-physical sciences.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

Pre-Program Requirements: Students entering from the Freshman program must have included CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology., MATH 133 Linear Algebra and Geometry., MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B., PHYS 131 Mechanics and Waves./PHYS 142 Electromagnetism and Optics., or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. do not have to take MATH 222 Calculus 3..

Required Courses (65 credits)

Completion of Mathematics MATH 222 Calculus 3. and MATH 315 Ordinary Differential Equations. during U1 is strongly recommended.

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 319	Introduction to Biophysics.	3
BIOL 395	Quantitative Biology Seminar. ¹	1
CHEM 212	Introductory Organic Chemistry 1. ²	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3

MATH 323	Probability.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3

- ¹ Denotes courses with CEGEP equivalents.
The courses are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the program will not be eligible for admission to the Ordre des chimistes du Québec without additional chemistry electives.
This program is not currently accredited by the Canadian Society for Chemistry.
- ² Students who have successfully completed MATH 150 Calculus A. and MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Chemistry

Expand allContract all

Course	Title	Credits
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3
CHEM 222	Introductory Organic Chemistry 2. ¹	4
CHEM 267	Introductory Chemical Analysis.	3
CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3
CHEM 281	Inorganic Chemistry 1.	3
CHEM 345	Introduction to Quantum Chemistry.	3
CHEM 355	Applications of Quantum Chemistry.	3
CHEM 367	Instrumental Analysis 1.	3
CHEM 377	Instrumental Analysis 2.	3
CHEM 470	Research Project 1.	6
CHEM 493	Advanced Physical Chemistry Laboratory.	2
PHYS 242	Electricity and Magnetism.	2

- ¹ Denotes courses with CEGEP equivalents.
The courses are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the program will not be eligible for admission to the Ordre des chimistes du Québec without additional chemistry electives.
This program is not currently accredited by the Canadian Society for Chemistry.

Complementary Courses

(9-10 credits)

3 credits of:

Course	Title	Credits
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 381	Inorganic Chemistry 2.	3

6-7 credits of:

Expand allContract all

Course	Title	Credits				Credits
BIOL 300	Molecular Biology of the Gene.	3	COMP 302	Programming Languages and Paradigms.		3
BIOL 301	Cell and Molecular Laboratory.	4	COMP 330	Theory of Computation.		3
BIOL 316	Biomembranes and Organelles.	3	COMP 527	Logic and Computation.		3
BIOL 551	Principles of Cellular Control.	3	MATH 240	Discrete Structures.		3
CHEM 302	Introductory Organic Chemistry 3.	3	MATH 318	Mathematical Logic.		3
CHEM 381	Inorganic Chemistry 2.	3				
CHEM 502	Advanced Bio-Organic Chemistry.	3				
CHEM 514	Biophysical Chemistry.	3				
CHEM 520	Methods in Chemical Biology.	3				
CHEM 555	Magnetic Resonance Spectroscopy.	3				
CHEM 575	Chemical Kinetics.	3				
COMP 208	Computer Programming for Physical Sciences and Engineering .	3				

Cognitive Science Minor (B.Sc.) (24 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

The Minor Cognitive Science is intended to allow students in the Faculty of Arts or the Faculty of Science to explore the interdisciplinary study of cognition. The goal is to understand the principles of intelligence with the hope that this will lead to a better understanding of the mind and learning.

Students wishing to complete this Minor should contact the Cognitive Science Program Adviser if there are any questions about the requirements at <https://www.mcgill.ca/science/undergraduate/advice/sousa>.

Required Course (3 credits)

PSYC 433 Cognitive Science.

Complementary Courses (21 credits)

Note:

Students must take a minimum of 6 credits at the 400 to 500 level.

Students may not take any courses from their home department(s).

Students complete a minimum of 9 credits each in two areas.

Computer Science and Mathematics

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 230	Logic and Computability.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or:

Expand allContract all

Course	Title	Credits
LING 201	Introduction to Linguistics.	3
LING 210	Introduction to Speech Science.	3
LING 260	Meaning in Language.	3

Philosophy

Expand allContract all

Course	Title	Credits
PHIL 210	Introduction to Deductive Logic 1.	3
PHIL 221	Introduction to History and Philosophy of Science 2.	3
PHIL 306	Philosophy of Mind.	3
PHIL 310	Intermediate Logic.	3
PHIL 311	Philosophy of Mathematics.	3
PHIL 341	Philosophy of Science 1.	3
PHIL 411	Topics in Philosophy of Logic and Mathematics.	3
PHIL 415	Philosophy of Language.	3
PHIL 441	Philosophy of Science 2.	3
PHIL 474	Phenomenology.	3

Psychology

Expand allContract all

Course	Title	Credits
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 301	Animal Learning and Theory.	3
PSYC 304	Child Development.	3
PSYC 310	Intelligence.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 315	Computational Psychology.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 340	Psychology of Language.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 413	Cognitive Development.	3
PSYC 538	Categorization, Communication and Consciousness.	3

Computer Science Minor (B.Sc.) (24 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 24

Program Description

Students must obtain approval from their main program adviser, and are also strongly encouraged to speak with a School of Computer Science adviser before choosing complementary courses. A particular course selection must be approved before the student registers for their final term of studies.

Students should note that COMP 251 Algorithms and Data Structures. is a prerequisite for many upper level COMP courses. Upper level COMP courses may have prerequisites that are not part of the Minor such as MATH 222 Calculus 3., MATH 223 Linear Algebra., or MATH 323 Probability.. Students will not get credit for these courses toward the Minor.

Students may receive up to 6 credits toward the Minor by taking certain approved courses outside the School of Computer Science. These courses must have a high computer science content and must be approved by the School of Computer Science in advance. If a student's Major program requires Computer Science courses, up to 6 credits of Computer Science courses may be used to fulfill both Major and Minor requirements.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3

¹ Students who have sufficient knowledge of computer programming do not need to take COMP 202 Foundations of Programming., but it must be replaced with an additional computer science complementary course.

Complementary Courses (15 credits)

15 credits selected from the courses below and computer science courses at the 300 level or above (except COMP 396 Undergraduate Research Project.).

Expand allContract all

Course	Title	Credits
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

Computer Science Liberal Program - Core Science Component (B.Sc.) (45 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 45

Program Description

This program provides an introduction to the principles of computer science and offers opportunity to get insight into some of its sub-areas. Having only 45 credits, it allows students to combine it with minor or major concentrations in other disciplines.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming., but it must be replaced with an additional computer science complementary course.

Complementary Courses (27 credits)

3 credits from each of the groups A, B, C, and D.

Group A

Expand allContract all

Course	Title	Credits	
MATH 222	Calculus 3.	3	• The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
MATH 323	Probability.	3	
MATH 324	Statistics.	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Group B

Expand allContract all

Course	Title	Credits	
MATH 223	Linear Algebra.	3	
MATH 318	Mathematical Logic.	3	
MATH 340	Discrete Mathematics.	3	

Group C

Expand allContract all

Course	Title	Credits	
COMP 330	Theory of Computation.	3	
COMP 350	Numerical Computing.	3	
COMP 360	Algorithm Design.	3	

Group D

Expand allContract all

Course	Title	Credits	
COMP 302	Programming Languages and Paradigms.	3	
COMP 303	Software Design.	3	

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from any COMP courses at the 300 level or above except COMP 396 Undergraduate Research Project..

Software Engineering Liberal Program - Core Science Component (B.Sc.) (49 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 49

Program Description

This program covers a core of programming and software engineering courses and allows students to select courses that aim at practical aspects of software development.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Required Courses (36 credits)

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming. and can replace it with additional computer science complementary course credits.

Complementary Courses (13 credits)

3 credits selected from:

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 360	Algorithm Design.	3

10 credits from:

Course	Title	Credits
COMP 322	Introduction to C++.	1
COMP 409	Concurrent Programming.	3
COMP 421	Database Systems.	3
COMP 520	Compiler Design.	4
COMP 525	Formal Verification.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 535	Computer Networks 1.	4
ECSE 326	Software Requirements Engineering.	3

ECSE 437	Software Delivery.	3
ECSE 539	Advanced Software Language Engineering.	4

Or any COMP courses at the 300 level or above (excluding COMP 396 Undergraduate Research Project..)

Computer Science Major (B.Sc.) (63 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

This program is the standard Major program offered by the School of Computer Science. It provides a broad introduction to the principles of computer science and offers ample opportunity to acquire in-depth knowledge of several sub-disciplines. At the same time, its credit requirements allow students to take an additional minor.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from taking COMP 202 Foundations of Programming..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

Complementary Courses (30 credits)

Students should talk to an academic adviser before choosing their complementary courses.

At least 6 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 350	Numerical Computing.	3
COMP 360	Algorithm Design.	3

3-9 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic. ¹	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 340	Discrete Mathematics.	3

¹ Must include at least one of MATH 323 Probability. and MATH 340 Discrete Mathematics..

At least 6 credits at the 400-level or above.

The remaining credits selected from computer science courses at the 300 level or above (except COMP 396 Undergraduate Research Project.) and ECSE 539 Advanced Software Language Engineering..

Note: Students have to make sure that they have the appropriate prerequisites when choosing upper-level courses.

Computer Science - Artificial Intelligence Major (B.Sc.) (63 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

The B.Sc.; Major in Computer Science: Artificial Intelligence focuses on topics that relate to artificial intelligence and machine learning, including both foundations and applications. Students may complete this program with a minimum of 63 credits or a maximum of 68 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (39-42 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 424	Artificial Intelligence.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

Complementary Courses (24-26 credits)

Group A

6 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 350	Numerical Computing.	3
COMP 360	Algorithm Design.	3

Group B

3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 310	Operating Systems.	3
COMP 421	Database Systems.	3

Group C

3 or 4 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 451	Fundamentals of Machine Learning.	3
COMP 551	Applied Machine Learning.	4

Group D

3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 345	From Natural Language to Data Science.	3
COMP 370	Introduction to Data Science.	3

Group E

3 or 4 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 417	Introduction Robotics and Intelligent Systems.	3
COMP 445	Computational Linguistics.	3
COMP 511	Network Science.	4
COMP 514	Applied Robotics.	4
COMP 545	Natural Language Understanding with Deep Learning.	4
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 550	Natural Language Processing.	3
COMP 558	Fundamentals of Computer Vision.	4
COMP 562	Theory of Machine Learning.	4
COMP 565	Machine Learning in Genomics and Healthcare.	4
COMP 579	Reinforcement Learning.	4
COMP 585	Intelligent Software Systems .	4
ECSE 552	Deep Learning.	4
ECSE 557	Introduction to Ethics of Intelligent Systems.	3

Group F

6 credits of COMP courses at the 300 level or above (except COMP 396 Undergraduate Research Project.).

Computer Science and Biology Major (B.Sc.) (74 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 74

Program Description

This program will focus on the fundamentals of biology and the computational and mathematical skills needed to manage, analyze, and model large biological datasets.

Students may complete this program with a minimum of 63 credits and maximum of 74.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

U0 (freshman) students should take:

Expand allContract all		
Course	Title	Credits
BIOL 111 & BIOL 112	Principles: Organismal Biology and Cell and Molecular Biology.	6
CHEM 110 & CHEM 120	General Chemistry 1. and General Chemistry 2.	8
MATH 133	Linear Algebra and Geometry.	3
MATH 140 & MATH 141	Calculus 1. and Calculus 2.	7-8
or MATH 150 & MATH 151	Calculus A. and Calculus B.	
PHYS 101 & PHYS 102	Introductory Physics - Mechanics. and Introductory Physics - Electromagnetism.	8
or PHYS 131 & PHYS 142	Mechanics and Waves. and Electromagnetism and Optics.	

Note that MATH 150 Calculus A.-MATH 151 Calculus B. provides equivalence for required course MATH 222 Calculus 3..

Students who do not have a background in computer programming at the level of COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences. must take one of these courses. COMP 204 Computer Programming for Life Sciences. is considered equivalent to COMP 202 Foundations of Programming. as a prerequisite for COMP 206 Introduction to Software Systems. and COMP 250 Introduction to Computer Science..

Required Courses (46 credits)

36-46 credits:

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1.	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 323	Probability.	3

¹ Students with CEGEP-level credit for the equivalents of MATH 222 Calculus 3. and/or CHEM 212 Introductory Organic Chemistry 1. do not have to take these courses. Students should speak with an advisor if uncertain if they are exempted.

Computer Science and Mathematics

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
MATH 240	Discrete Structures.	3

¹ Students may take either COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences., but not both. Students who have taken the equivalent of COMP 202/COMP 204 prior to their McGill studies are exempt from COMP 202/COMP 204.

Biology

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 215	Introduction to Ecology and Evolution.	3

Required Joint Courses

Expand allContract all

Course	Title	Credits
COMP 401	Project in Biology and Computer Science.	3

Complementary Courses (27-28 credits)

3-4 credits from the following:

Expand allContract all

Course	Title	Credits				
COMP 462	Computational Biology Methods.	3	BIOL 546	Genetics of Model Systems.	3	
COMP 561	Computational Biology Methods and Research.	4	BIOL 551	Principles of Cellular Control.	3	
3-6 from the following:			BIOL 568	Topics on the Human Genome.	3	
Expand allContract all			BIOL 569	Developmental Evolution.	3	
Course	Title	Credits	BIOL 580	Genetic Approaches to Neural Systems.	3	
MATH 315	Ordinary Differential Equations.	3	BIOL 588	Advances in Molecular/Cellular Neurobiology.	3	
MATH 324	Statistics.	3	HGEN 575	Human Biochemical Genetics.	3	
			NEUR 310	Cellular Neurobiology.	3	

The remaining 18-21 credits is to be chosen from the following, with at least 9 credits at the 400 level or above.

Computer Science Block

9-12 credits from:

Course	Title	Credits
COMP 273	Introduction to Computer Systems.	3

and any other COMP courses at the 300 level or above, except COMP 400 Project in Computer Science, COMP 401 Project in Biology and Computer Science., COMP 402 Honours Project in Computer Science and Biology., COMP 462 Computational Biology Methods., and COMP 561 Computational Biology Methods and Research.). At least 3 of these 9-12 credits must be at the 400 level or above.

Biology Block

9-12 credits from the following, with 3-6 credits at the 400 level or above:

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 308	Ecological Dynamics.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 316	Biomembranes and Organelles.	3
BIOL 319	Introduction to Biophysics.	3
BIOL 320	Evolution of Brain and Behaviour.	3
BIOL 389	Laboratory in Neurobiology.	3
BIOL 416	Genetics of Mammalian Development.	3
BIOL 435	Natural Selection.	3
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 532	Developmental Neurobiology Seminar.	3

Computer Science - Computer Games Major (B.Sc.) (65 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 65

Program Description

This program is a specialization within Computer Science. It fulfills all the basic requirements of the Major Computer Science. The program focuses on topics that are important to understanding the technology behind computer games and to gaining experience in software development and design needed for computer game development.

Students may complete this program with a minimum of 62 credits or a maximum of 65 credits depending on whether they are exempt from taking COMP 202 Foundations of Programming..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
 - The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
- Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (46-49 credits)

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3

COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 322	Introduction to C++.	1
COMP 330	Theory of Computation.	3
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
COMP 557	Fundamentals of Computer Graphics.	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3
MATH 323	Probability.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

Complementary Courses (16 credits)

3 credits selected from:

Expand allContract all		
Course	Title	Credits
COMP 350	Numerical Computing.	3
COMP 360	Algorithm Design.	3

At least 7 credits selected from:

Expand allContract all		
Course	Title	Credits
COMP 308	Computer Systems Lab.	1
COMP 424	Artificial Intelligence.	3
COMP 521	Modern Computer Games.	4
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 551	Applied Machine Learning.	4
COMP 559	Fundamentals of Computer Animation.	4

At least 6 credits selected from:

Expand allContract all		
Course	Title	Credits
COMP 409	Concurrent Programming.	3
COMP 421	Database Systems.	3
COMP 535	Computer Networks 1.	4

Computer Science Honours (B.Sc.) (75 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

This program provides a more advanced version of the Major Computer Science program. It focuses on a more advanced and theory-based algorithms and computer science content, and it includes a required project.

Students may complete this program with a minimum of 72 credits or a maximum of 75 credits.

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (46-49 credits)

Expand allContract all		
Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 350	Numerical Computing.	3
COMP 362	Honours Algorithm Design.	3
COMP 400	Project in Computer Science	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3
MATH 340	Discrete Mathematics. ²	3
MATH 350	Honours Discrete Mathematics. ²	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

² Students who have sufficient knowledge in a programming language do not need to take MATH 340 Discrete Mathematics..

2

Students take either MATH 340 Discrete Mathematics. or MATH 350 Honours Discrete Mathematics ..

Complementary Courses (26 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

20 credits selected from computer science courses at the 300 level or above (except COMP 396 Undergraduate Research Project.) and ECSE 539 Advanced Software Language Engineering.. At least 12 credits must be at the 500 level.

Computer Science and Biology Honours (B.Sc.) (77 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 77

Program Description

This program focuses on the fundamentals of biology with a focus on molecular biology, and gives them computational and mathematical skills needed to manage, analyze, and model large biological datasets. Compared to the Joint Major counterpart, this program requires additional research credits and a larger number of advanced courses. Students must maintain a minimum CGPA of 3.5. To graduate with First Class Honours, the CGPA must be at least 3.75.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

U0 (freshman) students should take:

Expand allContract all

Course	Title	Credits
BIOL 111 & BIOL 112	Principles: Organismal Biology. and Cell and Molecular Biology.	6
CHEM 110 & CHEM 120	General Chemistry 1. and General Chemistry 2.	8
MATH 133	Linear Algebra and Geometry.	3
MATH 140 & MATH 141	Calculus 1. and Calculus 2.	8
or MATH 150 & MATH 151	Calculus A. and Calculus B.	
PHYS 101 & PHYS 102	Introductory Physics - Mechanics. and Introductory Physics - Electromagnetism.	8
or PHYS 131 & PHYS 142	Mechanics and Waves. and Electromagnetism and Optics.	

Note that MATH 150 Calculus A.-MATH 151 Calculus B. provides equivalence for required course MATH 222 Calculus 3..

Students who do not have a background in computer programming at the level of COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences. must take one of these courses. COMP 204 Computer Programming for Life Sciences. is considered equivalent to COMP 202 Foundations of Programming. as a prerequisite for COMP 206 Introduction to Software Systems. and COMP 250 Introduction to Computer Science..

Required Courses (43-53 credits)

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1. ¹	4
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 323	Probability.	3

¹ Students with CEGEP-level credit for the equivalents of MATH 222 Calculus 3. and/or CHEM 212 Introductory Organic Chemistry 1. do not have to take these courses. Students should speak with an advisor if uncertain if they are exempted.

Computer Science and Mathematics

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 204	Computer Programming for Life Sciences. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science. ²	3
COMP 252	Honours Algorithms and Data Structures.	3

COMP 561	Computational Biology Methods and Research.	4
MATH 240	Discrete Structures.	3

- ¹ Students may take either COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences., but not both. Students who have taken the equivalent of COMP 202/COMP 204 prior to their McGill studies are exempt from COMP 202/COMP 204.
- ² Students with credit for COMP 251 Algorithms and Data Structures. instead of COMP 252 Honours Algorithms and Data Structures. must include in their Complementary courses at least 6 COMP credits at the 400 level or above, including at least 3 credits at the 500 level or above.

Biology

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 215	Introduction to Ecology and Evolution.	3

Joint Courses

Expand allContract all

Course	Title	Credits
COMP 402D1	Honours Project in Computer Science and Biology.	3
COMP 402D2	Honours Project in Computer Science and Biology.	3

Complementary Courses (24 credits)

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
MATH 315	Ordinary Differential Equations.	3
MATH 324	Statistics.	3

The remaining 18-21 credits to be chosen from the following, with at least 9 credits at the 400 level or above:

Computer Science Block

9-12 credits from:

Expand allContract all

Course	Title	Credits
COMP 273	Introduction to Computer Systems.	3

and any other COMP courses at the 300 level or above - except COMP 400 Project in Computer Science, COMP 401 Project in Biology and Computer Science., COMP 402 Honours Project in Computer Science and Biology., COMP 462 Computational Biology Methods., and COMP 561 Computational Biology Methods and Research.. At least 3 of these 9-12 credits must be at the 400 level or above.

Biology Block

9-12 credits from the following, with 3-6 credits at the 400 level or above:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 308	Ecological Dynamics.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 316	Biomembranes and Organelles.	3
BIOL 319	Introduction to Biophysics.	3
BIOL 320	Evolution of Brain and Behaviour.	3
BIOL 389	Laboratory in Neurobiology.	3
BIOL 416	Genetics of Mammalian Development.	3
BIOL 435	Natural Selection.	3
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 546	Genetics of Model Systems.	3
BIOL 551	Principles of Cellular Control.	3
BIOL 568	Topics on the Human Genome.	3
BIOL 569	Developmental Evolution.	3
BIOL 580	Genetic Approaches to Neural Systems.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
HGEN 575	Human Biochemical Genetics.	3
NEUR 310	Cellular Neurobiology.	3

Software Engineering Major (B.Sc.) (63 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

This program provides a broad introduction to the principles of computer science and covers in depth the design and development of software systems.

Students may complete this program with a maximum of 63 credits or a minimum of 60 credits if they are exempt from taking COMP 202 Foundations of Programming..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (36-39 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
ECSE 429	Software Validation.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

Complementary Courses (24 credits)

9 credits selected from Groups A and B, with at least 3 credits selected from each:

15 credits selected from Groups C and D, with at least 9 credits selected from Group C, and at least 3 credits selected from Group D.

Group A

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

Group B

Expand allContract all

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 360	Algorithm Design.	3

Group C: Software Engineering Specialization

Expand allContract all

Course	Title	Credits
COMP 409	Concurrent Programming. ¹	3
COMP 523	Language-based Security.	3
COMP 525	Formal Verification.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 555	Information Privacy.	4
ECSE 326	Software Requirements Engineering.	3
ECSE 420	Parallel Computing. ¹	3
ECSE 424	Human-Computer Interaction.	3
ECSE 437	Software Delivery.	3
ECSE 539	Advanced Software Language Engineering.	4

¹ Students may select either COMP 409 Concurrent Programming. or ECSE 420 Parallel Computing., but not both.

Group D: Applications

Expand allContract all

Course	Title	Credits
COMP 350	Numerical Computing.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3
COMP 421	Database Systems.	3
COMP 424	Artificial Intelligence.	3
COMP 512	Distributed Systems.	4
COMP 520	Compiler Design.	4
COMP 521	Modern Computer Games.	4
COMP 535	Computer Networks 1.	4
COMP 551	Applied Machine Learning.	4
COMP 557	Fundamentals of Computer Graphics.	4
COMP 558	Fundamentals of Computer Vision.	4
COMP 585	Intelligent Software Systems .	4

Software Engineering Honours (B.Sc.) (75 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

This program provides a more challenging and research-oriented version of the Major Software Engineering program.

Students may complete this program with a maximum of 75 credits or a minimum of 72 credits if they are exempt from taking COMP 202 Foundations of Programming..

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (39-42 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 361D1	Software Engineering Project.	3
COMP 361D2	Software Engineering Project.	3
COMP 400	Project in Computer Science	4
ECSE 429	Software Validation.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming..

At least 18 credits must be from Groups C and D, with at least 9 credits from Group C and at least 6 credits from Group D.

At least 12 credits must be from COMP courses at the 500 level or above.

Group A

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3

Group B

Expand allContract all

Course	Title	Credits
COMP 330	Theory of Computation.	3
COMP 360	Algorithm Design.	3

Group C: Software Engineering Specialization

Expand allContract all

Course	Title	Credits
COMP 409	Concurrent Programming. ¹	3
COMP 523	Language-based Security.	3
COMP 525	Formal Verification.	3
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 555	Information Privacy.	4
ECSE 326	Software Requirements Engineering.	3
ECSE 420	Parallel Computing. ¹	3
ECSE 424	Human-Computer Interaction.	3
ECSE 437	Software Delivery.	3
ECSE 539	Advanced Software Language Engineering.	4

¹ Students may select either COMP 409 Concurrent Programming. or ECSE 420 Parallel Computing., but not both.

Group D: Applications

Expand allContract all

Course	Title	Credits
COMP 350	Numerical Computing.	3
COMP 417	Introduction Robotics and Intelligent Systems.	3
COMP 421	Database Systems.	3
COMP 424	Artificial Intelligence.	3
COMP 512	Distributed Systems.	4
COMP 520	Compiler Design.	4
COMP 521	Modern Computer Games.	4
COMP 535	Computer Networks 1.	4
COMP 551	Applied Machine Learning.	4
COMP 557	Fundamentals of Computer Graphics.	4

Complementary Courses (33 credits)

At least 9 credits must be from Groups A and B, with at least 3 credits from each:

COMP 558	Fundamentals of Computer Vision.
COMP 585	Intelligent Software Systems .

- 4 The appropriate background in chemistry is required: (CHEM 110 General Chemistry 1. and CHEM 120 General Chemistry 2., or their equivalent) and calculus (MATH 139 Calculus 1 with Precalculus. and MATH 141 Calculus 2., or their equivalent).

Geology Minor (B.Sc.) (18 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3

Complementary Courses (12 credits)

3 credits, one of:

Expand allContract all

Course	Title	Credits
EPSC 201	Understanding Planet Earth.	3
EPSC 233	Earth and Life Through Time	3

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

Expand allContract all

Course	Title	Credits
EPSC 231	Field School 1.	3
EPSC 303	Structural Geology.	3
EPSC 334	Invertebrate Paleontology.	3
EPSC 350	Tectonics.	3
EPSC 452	Mineral Deposits.	3
EPSC 561	Ore-forming Processes.	3

Geochemistry Minor (B.Sc.) (18 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor in Geochemistry focuses on the chemistry of Earth's lithosphere, its reactivity in contact with the atmosphere and/or the hydrosphere, and the chemistry of extra-terrestrial materials.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EPSC 201	Understanding Planet Earth.	3
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3

Complementary Courses (9 credits)

9 credits selected from:

Course	Title	Credits
EPSC 220	Principles of Geochemistry.	3
EPSC 325	Environmental Geochemistry.	3
EPSC 501	Crystal Chemistry.	3
EPSC 519	Isotopes in Earth and Environmental Science.	3
EPSC 549	Hydrogeology.	3
EPSC 570	Cosmochemistry.	3
EPSC 590	Applied Geochemistry Seminar.	3

Earth and Planetary Sciences Liberal Program - Core Science Component (B.Sc.) (45 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 45

Program Description

The B.Sc. (Liberal) program in Earth and Planetary Sciences provides the graduate with a solid core of knowledge of Geology, Geophysics, Earth Systems Science, and Planetary Science while allowing for a broadening of the student's educational experience with courses from the other sciences or the arts. The program is flexible, allowing students to assemble a truly interdisciplinary degree.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (21 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 231	Field School 1.	3
EPSC 233	Earth and Life Through Time	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3

Complementary Courses (24 credits)

3 credits, one of:

[Expand all](#)[Contract all](#)

Course	Title	Credits
EPSC 331	Field School 2.	3
EPSC 341	Field School 3.	3

plus 21 credits chosen from the following:

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

[Expand all](#)[Contract all](#)

Course	Title	Credits
EPSC 334	Invertebrate Paleontology.	3
EPSC 340	Earth and Planetary Inference.	3
EPSC 350	Tectonics.	3
EPSC 355	Sedimentary Geology.	3
EPSC 423	Igneous Petrology.	3
EPSC 425	Sediments to Sequences.	3
EPSC 445	Metamorphic Petrology.	3
EPSC 452	Mineral Deposits.	3
EPSC 501	Crystal Chemistry.	3
EPSC 519	Isotopes in Earth and Environmental Science.	3
EPSC 530	Volcanology.	3
EPSC 547	Modelling Geochemical Processes.	3
EPSC 548	Igneous Petrogenetic Mechanisms.	3
EPSC 549	Hydrogeology.	3

EPSC 550	Selected Topics 1.	3
EPSC 551	Selected Topics 2.	3
EPSC 552	Selected Topics 3.	3
EPSC 561	Ore-forming Processes.	3
EPSC 567	Advanced Volcanology.	3
EPSC 570	Cosmochemistry.	3
EPSC 590	Applied Geochemistry Seminar.	3
ESYS 300	Earth Data Analysis.	3
ESYS 301	Earth System Modelling.	3
ESYS 500	Collaborative Research Project.	3

Geology Major (B.Sc.) (66 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The program curriculum provides a rigorous foundation in the fundamental earth science subjects and in advanced subjects relevant to exploration for energy resources, industrial and ore minerals, and to environmental geosciences. The program meets the academic requirements shared by the professional orders for geologists and environmental geoscientists in Canadian provinces.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 231	Field School 1.	3
EPSC 233	Earth and Life Through Time	3
EPSC 240	Geology in the Field.	3
EPSC 303	Structural Geology.	3

EPSC 320	Elementary Earth Physics.	3	if they meet the academic requirements of professional orders in most Canadian provinces.
EPSC 340	Earth and Planetary Inference.	3	
MATH 222	Calculus 3.	3	

Complementary Courses (36 credits)

15 credits of advanced earth science

Expand allContract all

Course	Title	Credits	
EPSC 355	Sedimentary Geology.	3	
EPSC 423	Igneous Petrology.	3	
EPSC 425	Sediments to Sequences.	3	
EPSC 445	Metamorphic Petrology.	3	
EPSC 452	Mineral Deposits.	3	
GEOG 272	Earth's Changing Surface.	3	

3 credits of environmental and ore-forming processes

Expand allContract all

Course	Title	Credits	
EPSC 519	Isotopes in Earth and Environmental Science.	3	
EPSC 325	Environmental Geochemistry.	3	
EPSC 549	Hydrogeology.	3	
EPSC 561	Ore-forming Processes.	3	
EPSC 590	Applied Geochemistry Seminar.	3	
GEOG 305	Soils and Environment.	3	

18 credits of other specializations can be drawn from the categories above or from:

Expand allContract all

Course	Title	Credits	
EPSC 331	Field School 2.	3	
EPSC 334	Invertebrate Paleontology.	3	
EPSC 470D1	Undergraduate Thesis Research .	3	
EPSC 470D2	Undergraduate Thesis Research.	3	
EPSC 482	Research in Earth and Planetary Sciences.	3	
EPSC 501	Crystal Chemistry.	3	
EPSC 520	Earthquake Physics and Geology.	3	
EPSC 522	Advanced Environmental Hydrology.	3	
EPSC 525	Microbiology of the Earth System.	3	
EPSC 530	Volcanology.	3	
EPSC 547	Modelling Geochemical Processes.	3	
EPSC 548	Igneous Petrogenetic Mechanisms.	3	
EPSC 567	Advanced Volcanology.	3	
GEOG 201	Introductory Geo-Information Science.	3	
GEOG 322	Environmental Hydrology.	3	

Other ATOC, EPSC, ESYS, GEOG, MATH and MIME courses may also be used, with the permission of the Director of undergraduate studies,

Geology Honours (B.Sc.) (75 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

The program curriculum provides a rigorous foundation in the fundamental earth science subjects and in advanced subjects relevant to exploration for energy resources, industrial and ore minerals, and to environmental geosciences. The program meets the academic requirements shared by the professional orders for geologists and environmental geoscientists in Canadian provinces.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits	
EPSC 210	Introductory Mineralogy.	3	
EPSC 212	Introductory Petrology.	3	
EPSC 220	Principles of Geochemistry.	3	
EPSC 231	Field School 1.	3	
EPSC 233	Earth and Life Through Time	3	
EPSC 240	Geology in the Field.	3	
EPSC 303	Structural Geology.	3	
EPSC 320	Elementary Earth Physics.	3	
EPSC 340	Earth and Planetary Inference.	3	
EPSC 480D1	Honours Research Thesis.	3	
EPSC 480D2	Honours Research Thesis.	3	
MATH 222	Calculus 3.	3	
MATH 314	Advanced Calculus.	3	
MATH 315	Ordinary Differential Equations.	3	

Complementary Courses (33 credits)

15 credits of earth science topics among

Expand allContract all

Course	Title	Credits
EPSC 355	Sedimentary Geology.	3
EPSC 423	Igneous Petrology.	3
EPSC 425	Sediments to Sequences.	3
EPSC 445	Metamorphic Petrology.	3
EPSC 452	Mineral Deposits.	3
GEOG 272	Earth's Changing Surface.	3

3 credits of environmental and ore-forming processes

Expand allContract all

Course	Title	Credits
EPSC 325	Environmental Geochemistry.	3
EPSC 519	Isotopes in Earth and Environmental Science.	3
EPSC 549	Hydrogeology.	3
EPSC 561	Ore-forming Processes.	3
EPSC 590	Applied Geochemistry Seminar.	3
GEOG 305	Soils and Environment.	3

15 credits of other specializations can be drawn from the categories above or from:

Expand allContract all

Course	Title	Credits
EPSC 331	Field School 2.	3
EPSC 334	Invertebrate Paleontology.	3
EPSC 350	Tectonics.	3
EPSC 482	Research in Earth and Planetary Sciences.	3
EPSC 501	Crystal Chemistry.	3
EPSC 510	Climate and Geodynamics	3
EPSC 520	Earthquake Physics and Geology.	3
EPSC 522	Advanced Environmental Hydrology.	3
EPSC 525	Microbiology of the Earth System.	3
EPSC 530	Volcanology.	3
EPSC 547	Modelling Geochemical Processes.	3
EPSC 548	Igneous Petrogenetic Mechanisms.	3
EPSC 567	Advanced Volcanology.	3
GEOG 201	Introductory Geo-Information Science.	3
GEOG 322	Environmental Hydrology.	3

Courses from other departments may also be used, with the permission of the Director of undergraduate studies, when they meet the academic requirements of professional orders in most Canadian provinces.

Planetary Sciences Honours (B.Sc.) (78 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 78

Program Description

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is intended to provide an excellent preparation for graduate work in the earth and planetary sciences.

Note: Honours students must maintain a CGPA equal to or greater than 3.20.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (66 credits)

Expand allContract all

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 212	Introductory Petrology.	3
EPSC 220	Principles of Geochemistry.	3
EPSC 231	Field School 1.	3
EPSC 233	Earth and Life Through Time	3
EPSC 240	Geology in the Field.	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3
EPSC 340	Earth and Planetary Inference.	3
EPSC 350	Tectonics.	3
EPSC 423	Igneous Petrology.	3
EPSC 480D1	Honours Research Thesis.	3
EPSC 480D2	Honours Research Thesis.	3
EPSC 510	Climate and Geodynamics	3
EPSC 570	Cosmochemistry.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3

MATH 314	Advanced Calculus.	3	ecological and human processes at the Earth surface. The program aims to provide fundamental understanding relevant to navigating the challenges of sustainability and climate change, and addresses timescales ranging from the vastness of Earth history to the fast-moving events of the Anthropocene.
MATH 315	Ordinary Differential Equations.	3	
MATH 317	Numerical Analysis.	3	
MATH 319	Partial Differential Equations .	3	
PHYS 340	Majors Electricity and Magnetism.	3	

Complementary Courses (12 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems.	3
PHYS 251	Honours Classical Mechanics 1.	3

plus 9 credits (three courses) chosen from the following:

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

Expand allContract all

Course	Title	Credits
EPSC 334	Invertebrate Paleontology.	3
EPSC 425	Sediments to Sequences.	3
EPSC 445	Metamorphic Petrology.	3
EPSC 501	Crystal Chemistry.	3
EPSC 519	Isotopes in Earth and Environmental Science.	3
EPSC 520	Earthquake Physics and Geology.	3
EPSC 530	Volcanology.	3
EPSC 547	Modelling Geochemical Processes.	3
EPSC 548	Igneous Petrogenetic Mechanisms.	3
EPSC 549	Hydrogeology.	3
EPSC 550	Selected Topics 1.	3
EPSC 551	Selected Topics 2.	3
EPSC 552	Selected Topics 3.	3
EPSC 561	Ore-forming Processes.	3
EPSC 567	Advanced Volcanology.	3
EPSC 590	Applied Geochemistry Seminar.	3

Earth System Science Minor (B.Sc.) (18 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor in Earth System Science combines interdisciplinary knowledge with quantitative tools to explore global connections between the atmosphere, oceans, solid Earth, and the dynamic

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
ESYS 301	Earth System Modelling.	3
ESYS 500	Collaborative Research Project.	3

Complementary Courses (6 credits)

6 credits (3 credits from two of the three ESYS Departments: EPSC, ATOC, or GEOG), at the 300 level or higher, in consultation with the ESS student adviser.

Earth System Science Major (B.Sc.) (57 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 57

Program Description

The Major in Earth System Science (ESYS) is offered jointly by the following departments:

- Atmospheric and Oceanic Sciences (ATOCS)
- Earth and Planetary Sciences (EPSC)
- Geography (GEOG)

Earth System Science (ESYS) views Earth as a single integrated system that provides a unifying context to examine the interrelationships between all components of the Earth system. The approach concentrates on the nature of linkages among the biological, chemical, human, and physical subsystems of the Earth. Earth System Science primarily involves studying the cycling of matter and energy through the atmosphere, biosphere, cryosphere, exosphere, and hydrosphere. It examines the dynamics and interrelationships among these processes at time scales that range from billions of years to days, and seeks to understand how these interrelationships have changed over time.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ENVR 201	Society, Environment and Sustainability.	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
ESYS 301	Earth System Modelling.	3
ESYS 500	Collaborative Research Project.	3
MATH 222	Calculus 3.	3

Complementary Courses (39 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPSC 340	Earth and Planetary Inference.	3
MATH 203	Principles of Statistics 1.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 219	Introduction to Atmospheric Chemistry.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 220	Principles of Geochemistry.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 428	Earth System Geographic Information Science.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
GEOG 203	Environmental Systems.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 215	Introduction to Ecology and Evolution.	3
ENVR 202	The Evolving Earth.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 339	Ecological Anthropology.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 310	Development and Livelihoods.	3

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser.

Expand allContract all

Course	Title	Credits
ATOC 215	Oceans, Weather and Climate.	3
ATOC 309	Weather Radars and Satellites.	3
ATOC 312	Rotating Fluid Dynamics.	3
ATOC 315	Thermodynamics and Convection.	3
ATOC 404	Climate Physics.	3
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 519	Advances in Chemistry of Atmosphere.	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 541	Synoptic Meteorology 2.	3
BIOL 308	Ecological Dynamics.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 310	Biodiversity and Ecosystems.	3
BIOL 432	Limnology.	3
BIOL 441	Biological Oceanography.	3
BIOL 465	Conservation Biology.	3
BIOL 540	Ecology of Species Invasions.	3

BIOL 573	Vertebrate Palaeontology Field Course.	3	MATH 315	Ordinary Differential Equations. ¹	3
BREE 217	Hydrology and Water Resources.	3	MATH 317	Numerical Analysis.	3
BREE 319	Engineering Mathematics.	3	MATH 319	Partial Differential Equations .	3
BREE 509	Hydrologic Systems and Modelling.	3	MATH 323	Probability.	3
BREE 510	Watershed Systems Management.	3	MATH 326	Nonlinear Dynamics and Chaos.	3
BREE 533	Water Quality Management.	3	MATH 423	Applied Regression.	3
ECON 347	Economics of Climate Change.	3	MATH 437	Mathematical Methods in Biology.	3
ECON 405	Natural Resource Economics.	3	MATH 447	Introduction to Stochastic Processes.	3
EPSC 212	Introductory Petrology.	3	MATH 525	Sampling Theory and Applications.	4
EPSC 320	Elementary Earth Physics.	3	PHYS 331	Topics in Classical Mechanics.	3
EPSC 325	Environmental Geochemistry.	3	PHYS 340	Majors Electricity and Magnetism.	3
EPSC 331	Field School 2.	3	PHYS 342	Majors Electromagnetic Waves.	3
EPSC 334	Invertebrate Paleontology.	3	PHYS 404	Climate Physics.	3
EPSC 340	Earth and Planetary Inference.	3	PHYS 432	Physics of Fluids.	3
EPSC 341	Field School 3.	3			
EPSC 350	Tectonics.	3			
EPSC 355	Sedimentary Geology.	3			
EPSC 423	Igneous Petrology.	3			
EPSC 425	Sediments to Sequences.	3			
EPSC 445	Metamorphic Petrology.	3			
EPSC 452	Mineral Deposits.	3			
EPSC 519	Isotopes in Earth and Environmental Science.	3			
EPSC 525	Microbiology of the Earth System.	3			
EPSC 530	Volcanology.	3			
EPSC 549	Hydrogeology.	3			
EPSC 561	Ore-forming Processes.	3			
EPSC 567	Advanced Volcanology.	3			
EPSC 590	Applied Geochemistry Seminar.	3			
GEOG 272	Earth's Changing Surface.	3			
GEOG 305	Soils and Environment.	3			
GEOG 321	Climatic Environments.	3			
GEOG 322	Environmental Hydrology.	3			
GEOG 351	Quantitative Methods.	3			
GEOG 372	Running Water Environments.	3			
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3			
GEOG 414	Advanced Geospatial Analysis.	3			
GEOG 470	Wetlands.	3			
GEOG 495	Field Studies - Physical Geography.	3			
GEOG 505	Global Biogeochemistry.	3			
GEOG 506	Advanced Geographic Information Science.	3			
GEOG 530	Global Land and Water Resources.	3			
GEOG 535	Remote Sensing and Interpretation.	3			
GEOG 536	Geocryology.	3			
GEOG 550	Historical Ecology Techniques.	3			
MATH 314	Advanced Calculus.	3			

Earth System Science Honours (B.Sc.) (66 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The Honours in Earth System Science (ESYS) is offered jointly by the following departments:

- Atmospheric and Oceanic Sciences (ATOC)
- Earth and Planetary Sciences (EPSC)
- Geography (GEOG)

A rigorous foundation in earth system science and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is also intended to provide an excellent preparation for graduate work in earth system science. A CGPA of 3.20 or higher is required for registration in and graduation from this program.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.20, and a minimum grade of B+ in ESYS 300 Earth Data Analysis., ESYS 301 Earth System Modelling., and ESYS 500 Collaborative Research Project..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
ENVR 201	Society, Environment and Sustainability.	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
ESYS 301	Earth System Modelling.	3
ESYS 480D1	Honours Research Project.	3
ESYS 480D2	Honours Research Project.	3
ESYS 500	Collaborative Research Project.	3
MATH 222	Calculus 3.	3
MATH 315	Ordinary Differential Equations.	3

Complementary Courses (39 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPSC 340	Earth and Planetary Inference.	3
MATH 203	Principles of Statistics 1.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ATOC 214	Introduction: Physics of the Atmosphere.	3
ATOC 219	Introduction to Atmospheric Chemistry.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPSC 210	Introductory Mineralogy.	3
EPSC 220	Principles of Geochemistry.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 428	Earth System Geographic Information Science.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
GEOG 203	Environmental Systems.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
BIOL 215	Introduction to Ecology and Evolution.	3
ENVR 202	The Evolving Earth.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
ANTH 339	Ecological Anthropology.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 300	Human Ecology in Geography.	3
GEOG 310	Development and Livelihoods.	3

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser.

Expand allContract all

Course	Title	Credits
ATOCA 215	Oceans, Weather and Climate.	3
ATOCA 309	Weather Radars and Satellites.	3
ATOCA 312	Rotating Fluid Dynamics.	3
ATOCA 315	Thermodynamics and Convection.	3
ATOCA 404	Climate Physics.	3
ATOCA 512	Atmospheric and Oceanic Dynamics.	3
ATOCA 513	Waves and Stability.	3
ATOCA 515	Turbulence in Atmosphere and Oceans.	3
ATOCA 519	Advances in Chemistry of Atmosphere.	3
ATOCA 521	Cloud Physics.	3
ATOCA 525	Atmospheric Radiation.	3
ATOCA 531	Dynamics of Current Climates.	3
ATOCA 540	Synoptic Meteorology 1.	3
ATOCA 541	Synoptic Meteorology 2.	3
BIOL 308	Ecological Dynamics.	3

BIOL 309	Mathematical Models in Biology.	3	GEOG 505	Global Biogeochemistry.	3
BIOL 310	Biodiversity and Ecosystems.	3	GEOG 506	Advanced Geographic Information Science.	3
BIOL 432	Limnology.	3	GEOG 530	Global Land and Water Resources.	3
BIOL 441	Biological Oceanography.	3	GEOG 535	Remote Sensing and Interpretation.	3
BIOL 465	Conservation Biology.	3	GEOG 536	Geocryology.	3
BIOL 540	Ecology of Species Invasions.	3	GEOG 550	Historical Ecology Techniques.	3
BIOL 573	Vertebrate Palaeontology Field Course.	3	MATH 314	Advanced Calculus.	3
BREE 217	Hydrology and Water Resources.	3	MATH 317	Numerical Analysis.	3
BREE 319	Engineering Mathematics.	3	MATH 319	Partial Differential Equations .	3
BREE 509	Hydrologic Systems and Modelling.	3	MATH 323	Probability.	3
BREE 510	Watershed Systems Management.	3	MATH 326	Nonlinear Dynamics and Chaos.	3
BREE 533	Water Quality Management.	3	MATH 423	Applied Regression.	3
ECON 347	Economics of Climate Change.	3	MATH 437	Mathematical Methods in Biology.	3
ECON 405	Natural Resource Economics.	3	MATH 447	Introduction to Stochastic Processes.	3
EPSC 212	Introductory Petrology.	3	MATH 525	Sampling Theory and Applications.	4
EPSC 320	Elementary Earth Physics.	3	PHYS 331	Topics in Classical Mechanics.	3
EPSC 325	Environmental Geochemistry.	3	PHYS 340	Majors Electricity and Magnetism.	3
EPSC 331	Field School 2.	3	PHYS 342	Majors Electromagnetic Waves.	3
EPSC 334	Invertebrate Paleontology.	3	PHYS 404	Climate Physics.	3
EPSC 340	Earth and Planetary Inference.	3	PHYS 432	Physics of Fluids.	3
EPSC 341	Field School 3.	3			
EPSC 350	Tectonics.	3			
EPSC 355	Sedimentary Geology.	3			
EPSC 423	Igneous Petrology.	3			
EPSC 425	Sediments to Sequences.	3			
EPSC 445	Metamorphic Petrology.	3			
EPSC 452	Mineral Deposits.	3			
EPSC 519	Isotopes in Earth and Environmental Science.	3			
EPSC 525	Microbiology of the Earth System.	3			
EPSC 530	Volcanology.	3			
EPSC 549	Hydrogeology.	3			
EPSC 561	Ore-forming Processes.	3			
EPSC 567	Advanced Volcanology.	3			
EPSC 590	Applied Geochemistry Seminar.	3			
GEOG 272	Earth's Changing Surface.	3			
GEOG 305	Soils and Environment.	3			
GEOG 321	Climatic Environments.	3			
GEOG 322	Environmental Hydrology.	3			
GEOG 351	Quantitative Methods.	3			
GEOG 372	Running Water Environments.	3			
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3			
GEOG 414	Advanced Geospatial Analysis.	3	INTG 215	Entrepreneurship Essentials for Non-Management Students.	3
GEOG 470	Wetlands.	3			
GEOG 495	Field Studies - Physical Geography.	3			

Entrepreneurship for Science Students Minor (B.Sc.) (18 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Bachelor of Science; Minor in Entrepreneurship is a collaboration of the Faculty of Science and the Desautels Faculty of Management. The program focuses on an entrepreneurial mindset to see opportunity in the world and provides training in an entrepreneurial method to bring opportunities for change to life. This program takes a democratized approach to entrepreneurship, with exposure to the diverse manifestations of entrepreneurship in the world including but not limited to new ventures, social enterprise, tech start-ups, cooperatives, corporate venturing, side hustles, and passion projects. The program emphasizes self-directed learning and experiential education. The program includes group projects with live start-ups in the McGill entrepreneurial ecosystem, and exploration of pathways to launch an entrepreneurial initiative.

Required Courses (9 credits)

Expand allContract all		Credits
Course	Title	Credits
INTG 215	Entrepreneurship Essentials for Non-Management Students.	3

MGPO 362	Fundamentals of Entrepreneurship.	3
MGPO 364	Entrepreneurship in Practice.	3

Complementary Courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 331	Information Technology Management .	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing.	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3
MGCR 423	Strategic Management.	3
MGCR 460	Social Context of Business.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 465	Technological Entrepreneurship.	3
MGPO 438	Social Entrepreneurship and Innovation.	3
MIMM 387	The Business of Science.	3

Field Studies Minor (B.Sc.) (18 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester, the Barbados Field Study Semester, the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, McGill Arctic Field Study Semester, or the Panama Field Study Semester may complete the 18-credit Minor in Field Studies.

The Minor consists of the 15 credits of a field study semester plus three additional complementary credits chosen by the student in consultation with their departmental adviser and/or the Field Study Minor adviser.

For students in the B.Sc. Liberal Program, the Field Studies Minor can serve as the breadth component.

Program descriptions for each of the field study semesters are provided below.

Note: The field study semesters are not degree programs. Credits may be counted toward McGill degrees with the permission of program advisers. Students who complete a field study semester may consult

the Field Study Minor adviser about completing the Minor program as part of their McGill degree.

Africa Field Study Semester (15 credits)

The Africa Field Study Semester (AFSS) is run through McGill's Canadian Field Study in Africa Program (CFSIA).

The AFSS provides one term of integrated field study in East Africa, with emphasis on environmental conservation, culture change, and sustainable development. Students investigate challenges of sustaining biological diversity and social justice in African environments subject to cultural change, economic development, and environmental stress. Cultural and ecological variation is examined in highland, montane, rangeland, desert, riverine, salt- and fresh-water lake, coastal, and urban settings.

Africa Field Study Semester - Required Courses

6 credits

Students select one course titled "Research in Society and Development in Africa" and one course titled "Research in Ecology and Development in Africa" from the courses below.

Expand allContract all

Course	Title	Credits
ANTH 451	Research in Society and Development in Africa.	3
BIOL 451	Research in Ecology and Development in Africa.	3
GEOG 451	Research in Society and Development in Africa.	3

Africa Field Study Semester - Complementary Courses

9 credits from:

Expand allContract all

Course	Title	Credits
ANTH 416	Environment/Development: Africa.	3
BIOL 428	Biological Diversity in Africa.	3
BIOL 429	East African Ecology.	3
GEOG 404	Environmental Management 2. ¹	3
GEOG 408	Geography of Development.	3
GEOG 423	Dilemmas of Development.	3
HIST 498	Independent Research.	3
REDM 405	Natural History of East Africa. ¹	3
WILD 420	Ornithology.	3

¹ Courses are offered on a rotational basis, at least 3 credits annually.

Barbados Field Study Semester (15 credits)

The Barbados Field Study Semester (BFSS), offered in partnership with the University of the West Indies, offers a unique opportunity to study at McGill University's campus in the tropics, the Bellairs Research Institute in Barbados. The focus of this field study semester is the

study of sustainability science, with emphasis on the Caribbean, which includes: a different climate and culture, field research, and conducting an applied research project. Project work is conducted with local partners and focuses on sustainability in Barbados.

Barbados Field Study Semester - Required Courses

15 credits

Expand allContract all

Course	Title	Credits
ATOC 341	Caribbean Climate and Weather.	3
BIOL 343	Biodiversity in the Caribbean.	3
FSCI 444	Barbados Research Project.	6
GEOG 340	Sustainability in the Caribbean.	3

Barbados Interdisciplinary Tropical Studies Field Semester (15 credits)

The Barbados Interdisciplinary Tropical Studies (BITS) Field Semester is an activity-filled, hands-on experience for students with an interest in international studies with a Caribbean flavour. The focus is on sustainable agri-food, nutrition, and energy production on a tropical island with a tourist-based economy. It is offered annually (in the Summer). It consists of two 2-hour orientation sessions conducted on the Macdonald campus and at the Bellairs Research Institute in Barbados, followed by three 3-credit and one 6-credit project courses at Bellairs Research Institute. This program integrates intensive course work with group project work and contributes to the formation of professionals with planning, managing, decision-making, and communication skills. The program addresses a global need for experienced professionals capable of interacting with various levels of government, non-governmental organizations, and the private sector. BITS welcomes applications from senior undergraduate students from across the University.

Barbados Interdisciplinary Tropical Studies Field Semester - Required Courses

15 credits

Expand allContract all

Course	Title	Credits
AEBI 421	Tropical Horticultural Ecology.	3
AEBI 423	Sustainable Land Use.	3
AEBI 425	Tropical Energy and Food.	3
AEBI 427	Barbados Interdisciplinary Project.	6

Panama Field Study Semester (15 credits)

This program is offered in Panama in partnership with the Smithsonian Tropical Research Institute (STRI).

Hands-on experience is gained through research projects organized around multidisciplinary environmental issues. The nature of these projects will centre on practical environmental problems/questions

important for Panama. Students will form teams that will work with Panamanian institutions (NGO, governmental, or research).

There is a one- or two-day period of transition and 13 weeks of course attendance in Panama. Field trips will be integrated into each of the courses offered.

Panama Field Study Semester - Required Courses

9 credits

Expand allContract all

Course	Title	Credits
BIOL 553	Neotropical Environments.	3
ENVR 451	Research in Panama.	6

Panama Field Study Semester - Complementary Courses

6 credits

Complementary courses change from year to year. Students will register for the 6 credits offered the Winter of their participation in the field study semester.

First Winter semester complementary courses:

Expand allContract all

Course	Title	Credits
AGRI 550	Sustained Tropical Agriculture.	3
GEOG 498	Humans in Tropical Environments.	3

Second Winter semester complementary courses:

Expand allContract all

Course	Title	Credits
GEOG 404	Environmental Management 2.	3
HIST 510	Environmental History of Latin America (Field).	3

McGill Arctic Field Study Semester

Required Courses (15 credits)

9 credits

Expand allContract all

Course	Title	Credits
ATOC 373	Arctic Climate and Climate Change.	3
EPSC 373	Arctic Geology.	3
GEOG 373	Arctic Geomorphology.	3

and 6 credits from

Expand allContract all

Course	Title	Credits
ATOC 473	Arctic Field Research.	6
EPSC 473	Arctic Field Research.	6
GEOG 473	Arctic Field Research.	6

Minor Field Studies - Complementary Course

In consultation with their departmental adviser and/or the Field Study Minor adviser, students who have completed one of the field study semesters described above may select a 3-credit complementary course to complete the requirements for the Minor and ask for it to be added to their academic records.

General Science Minor (B.Sc.) (18 credits)

Offered by: Science (Faculty of Arts)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor General Science is restricted to students in the B.Sc. Liberal program and may be used for the breadth component in this option. Students should consult their program adviser for their core science component and the Interdisciplinary Programs Adviser when selecting courses for this Minor.

Complementary Courses (18 credits)

Courses are to be chosen according to the following guidelines:

All courses must be offered by the Faculty of Science and must be at or above the 200 level .

All courses must be different from the student's core science component courses.

Two options:

9 credits at the 300 level or above and at least 9 credits outside the student's core science component subject.

or

12 credits at the 300 level or above and at least 6 credits outside the student's core science component subject.

¹ Note: All Undergraduate research project courses with the 396 or 397 course number cannot be used toward the Minor General Science.

Geography Minor (B.Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3

Complementary Courses (12 credits)

3 credits of Geography courses at the 200 level below.

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3

9 credits from any Geography course at the 300 level or above.

GIS & Remote Sensing Minor (B.Sc.) (18 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 314	Geospatial Analysis.	3

Complementary Courses (12 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
GEOG 333	Introduction to Programming for Spatial Sciences.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits	
ATOC 309	Weather Radars and Satellites. ¹	3	The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.
GEOG 308	Remote Sensing for Earth Observation. ¹	3	
GEOG 414	Advanced Geospatial Analysis. ¹	3	Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

¹ may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

6 credits selected from:

Expand allContract all			
Course	Title	Credits	Credits
ATOC 309	Weather Radars and Satellites. ¹	3	GEOG 201 Introductory Geo-Information Science. 3
COMP 250	Introduction to Computer Science.	3	GEOG 203 Environmental Systems. 3
ESYS 300	Earth Data Analysis.	3	GEOG 272 Earth's Changing Surface. 3
GEOG 202	Statistics and Spatial Analysis.	3	GEOG 290 Local Geographical Excursion. 1
GEOG 308	Remote Sensing for Earth Observation. ¹	3	GEOG 351 Quantitative Methods. 3
GEOG 384	Principles of Geospatial Web. ¹	3	
GEOG 414	Advanced Geospatial Analysis. ¹	3	
GEOG 428	Earth System Geographic Information Science.	3	
GEOG 506	Advanced Geographic Information Science.	3	
GEOG 535	Remote Sensing and Interpretation.	3	

¹ may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

Geography Liberal Program - Core Science Component (B.Sc.) (49 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 49

Program Description

This is the Core Science Component in Geography for the B.Sc. Liberal. Required courses provide a foundation in Geography (which takes a holistic approach to environmental sciences, distinguished by its incorporation of human and climatic elements). By completing these courses, students will be armed with the prerequisites for 300-level courses in Geography. Our set of complementary courses provides students with necessary analytical skills and a broad background in physical geography. The 300-level courses in the complementary set prepare students for advanced study at the 400 and 500 level.

Degree Requirements — B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 290	Local Geographical Excursion.	1
GEOG 351	Quantitative Methods.	3

Complementary Courses (36 credits)

¹ 3 credits of statistics

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

¹ Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

9 credits of systematic physical geography

Expand allContract all

Course	Title	Credits
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3
GEOG 372	Running Water Environments.	3
GEOG 373	Arctic Geomorphology.	3
GEOG 470	Wetlands.	3
GEOG 471	Arctic System Science	3

Students must take a total of 9 credits from the next 2 blocks; they will choose 6 credits from one block and 3 credits from the other, depending on their training focus.

3 or 6 credits of environmental analysis/techniques

Expand allContract all

Course	Title	Credits			
GEOG 308	Remote Sensing for Earth Observation.	3	GEOG 505	Global Biogeochemistry.	3
GEOG 314	Geospatial Analysis.	3	GEOG 506	Advanced Geographic Information Science.	3
GEOG 384	Principles of Geospatial Web.	3	GEOG 530	Global Land and Water Resources.	3
GEOG 414	Advanced Geospatial Analysis.	3	GEOG 535	Remote Sensing and Interpretation.	3
3 or 6 credits (In Environment, Earth System and Sustainability Sciences)			GEOG 536	Geocryology.	3
			GEOG 550	Historical Ecology Techniques.	3
			GEOG 555	Ecological Restoration.	3

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 438	Sand in the Anthropocene	3
GEOG 460	Research in Sustainability.	3

9 credits on human-environment linkages

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 315	Urban Transportation Geography.	3

3 credits of field courses:

Expand allContract all

Course	Title	Credits
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

3 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Geography Approved Course List - Major, Honours and Liberal Programs

Expand allContract all

Course	Title	Credits
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 404	Environmental Management 2.	3

Geography Major (B.Sc.) (58 credits)

Offered by: Geography (Faculty of Science)**Degree:** Bachelor of Science**Program credit weight:** 58

Program Description

The BSc Major in Geography provides students with strong training in the theory and tools of physical geography. Students will explore the science of how physical, chemical, and biological processes interact at various spatial and temporal scales to produce distinct environments over the planet, and study different suites of ecosystem services while investigating sustainability challenges for human communities that depend on them. The program includes core training in systematic areas of physical geography (geomorphology, hydrology, soil biogeochemistry, biogeography and climatology), field courses providing hands on exposure to environmental data collection, and courses in quantitative techniques and in GIS and Remote Sensing.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 290	Local Geographical Excursion.	1
GEOG 351	Quantitative Methods.	3

Complementary Courses (45 credits)

3 credits of statistics:

Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

9 credits of systematic physical geography:

Expand allContract all

Course	Title	Credits
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3
GEOG 372	Running Water Environments.	3
GEOG 373	Arctic Geomorphology.	3
GEOG 470	Wetlands.	3
GEOG 471	Arctic System Science	3

3 credits of field courses:

(Field course availability is determined each year in February.)

Expand allContract all

Course	Title	Credits
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

Students must take a total of 15 credits from the next 2 blocks; they will choose 9 credits from one block and 6 credits from the other block, depending on their training focus.

6 or 9 credits of environmental analysis/techniques

Expand allContract all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 384	Principles of Geospatial Web.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 428	Earth System Geographic Information Science.	3

6 or 9 credits in (Environment, Earth System and Sustainability sciences)

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
GEOG 302	Environmental Management 1.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 438	Sand in the Anthropocene	3
GEOG 460	Research in Sustainability.	3

9 credits on human-environment linkages

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 315	Urban Transportation Geography.	3

6 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Admission to 500-level courses in Geography requires the instructor's permission. It is not advisable to take more than one 500-level course in a term.

Geography Approved Course List - Major, Honours and Liberal Programs

Expand allContract all

Course	Title	Credits
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 404	Environmental Management 2.	3
GEOG 505	Global Biogeochemistry.	3
GEOG 506	Advanced Geographic Information Science.	3
GEOG 530	Global Land and Water Resources.	3
GEOG 535	Remote Sensing and Interpretation.	3
GEOG 536	Geocryology.	3
GEOG 550	Historical Ecology Techniques.	3
GEOG 555	Ecological Restoration.	3

Geography Honours (B.Sc.) (66 credits)

Offered by: Geography (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The Honours program provides specialized systematic training in physical geography. In addition to the Faculty of Science 3.00 CGPA requirement, students in a Geography Honours program must maintain a program GPA of 3.30 and complete a 6-credit Honours thesis.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
GEOG 201	Introductory Geo-Information Science.	3
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 351	Quantitative Methods.	3
GEOG 381	Geographic Thought and Practice.	3
GEOG 491D1	Honours Research.	3
GEOG 491D2	Honours Research.	3

Complementary Courses (45 credits)

9 credits on human-environment linkages

Expand allContract all

Course	Title	Credits
GEOG 210	Global Places and Peoples.	3
GEOG 216	Geography of the World Economy.	3
GEOG 217	Cities in the Modern World.	3
GEOG 221	Environment and Health.	3
GEOG 303	Health Geography.	3
GEOG 310	Development and Livelihoods.	3
GEOG 311	Economic Geography.	3
GEOG 315	Urban Transportation Geography.	3

¹
3 credits of statistics , one of:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3
SOCI 350	Statistics in Social Research.	3

¹ Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

9 credits of systematic physical geography:

Expand allContract all

Course	Title	Credits
GEOG 305	Soils and Environment.	3
GEOG 321	Climatic Environments.	3
GEOG 322	Environmental Hydrology.	3
GEOG 372	Running Water Environments.	3
GEOG 470	Wetlands.	3
GEOG 471	Arctic System Science	3

3 credits of field courses:

Expand allContract all

Course	Title	Credits
GEOG 495	Field Studies - Physical Geography.	3
GEOG 496	Geographical Excursion.	3

Students must take a total of 15 credits from the next 2 blocks; they will choose 9 credits from one block and 6 credits from the other block, depending on their training focus

6 or 9 credits of environmental analysis/techniques

Expand allContract all

Course	Title	Credits
GEOG 308	Remote Sensing for Earth Observation.	3
GEOG 314	Geospatial Analysis.	3
GEOG 384	Principles of Geospatial Web.	3
GEOG 414	Advanced Geospatial Analysis.	3
GEOG 428	Earth System Geographic Information Science.	3

6 or 9 credits (In Environment, Earth Science and Sustainability sciences)

Expand allContract all

Course	Title	Credits
ENVR 200	The Global Environment.	3
ENVR 201	Society, Environment and Sustainability.	3
ENVR 202	The Evolving Earth.	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3

GEOG 302	Environmental Management 1.	3
GEOG 360	Analyzing Sustainability.	3
GEOG 438	Sand in the Anthropocene	3
GEOG 460	Research in Sustainability.	3

6 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Geography Approved Course List - Major, Honours and Liberal Programs

Expand allContract all

Course	Title	Credits
GEOG 401	Socio-Environmental Systems: Theory and Simulation.	3
GEOG 404	Environmental Management 2.	3
GEOG 505	Global Biogeochemistry.	3
GEOG 506	Advanced Geographic Information Science.	3
GEOG 530	Global Land and Water Resources.	3
GEOG 535	Remote Sensing and Interpretation.	3
GEOG 536	Geocryology.	3
GEOG 550	Historical Ecology Techniques.	3
GEOG 555	Ecological Restoration.	3

Immunology (Interdepartmental) Honours (B.Sc.) (75 credits)

Offered by: Microbiology & Immunology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

The B.Sc.; Honours in Immunology (Interdepartmental) program involves the Departments of Biochemistry; Microbiology and Immunology; and Physiology, and incorporates elements from each of these disciplines. The program focuses on the critical understanding of the patho-physiology of many immune-mediated diseases.

The program consists of 48 required credits of basic science courses, covering cell and molecular biology; microbiology and immunology; biochemistry; and physiology. There are also 27 complementary credits which allow for specialization in immunology and related disciplines. To graduate from IHI, students must have a minimum CGPA of 3.30 and pass five immunology courses (MIMM 214 Introductory Immunology: Elements of Immunity., MIMM 314 Intermediate Immunology., PHGY 531 Topics in Applied Immunology., PHGY 419D1 Immunology Research Project. and PHGY 419D2 Immunology Research Project., PHGY 513 Translational Immunology., and one of BIOC 503 Biochemistry of Immune Diseases., MIMM 414 Advanced Immunology., MIMM 509 Inflammatory Processes., with a minimum grade of B.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (48 credits)

U1

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function. ¹	3
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism. ¹	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 222	Introductory Organic Chemistry 2. ²	4
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
PHGY 209	Mammalian Physiology 1. ²	3

¹ Students select either BIOC 212 Molecular Mechanisms of Cell Function. or BIOL 201 Cell Biology and Metabolism..

² Students select either PHGY 209 Mammalian Physiology 1. or MIMM 211 Introductory Microbiology..

U2

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
MIMM 314	Intermediate Immunology.	3

U3

Expand allContract all

Course	Title	Credits
PHGY 419D1	Immunology Research Project.	4.5
PHGY 419D2	Immunology Research Project.	4.5
PHGY 513	Translational Immunology.	3
PHGY 531	Topics in Applied Immunology.	3

Complementary Courses (27 credits)

U1

3 credits selected from:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

3 credits selected from the following:

Expand allContract all

Course	Title	Credits
ANAT 214	Systemic Human Anatomy.	3
ANAT 262	Introductory Molecular and Cell Biology.	3
BIOL 202	Basic Genetics.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 304	Evolution.	3
CHEM 203	Survey of Physical Chemistry. ¹	3
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 250	Introduction to Computer Science.	3
MATH 204	Principles of Statistics 2. ²	3
MIMM 211	Introductory Microbiology. ²	3
MIMM 212	Laboratory in Microbiology. ²	3
PHGY 209	Mammalian Physiology 1. ¹	3
PHGY 210	Mammalian Physiology 2.	3

BIOC 220 Laboratory Methods in Biochemistry and Molecular Biology 1. and BIOC 320 Laboratory Methods in Biochemistry and Molecular Biology 2., or
MIMM 384 Molecular Microbiology Laboratory. and MIMM 385 Laboratory in Immunology., or
PHGY 212 Introductory Physiology Laboratory 1. and PHGY 213 Introductory Physiology Laboratory 2. and BIOL 301 Cell and Molecular Laboratory.

6 credits selected from:

Course	Title	Credits
ANAT 365	Cellular Trafficking.	3
BIOL 300	Molecular Biology of the Gene. ¹	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
CHEM 302	Introductory Organic Chemistry 3.	3
MATH 222	Calculus 3.	3
MATH 315	Ordinary Differential Equations. ¹	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
PATH 300	Human Disease.	3
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3
PHAR 303	Principles of Toxicology.	3
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3

¹ If chosen, students take either CHEM 203 Survey of Physical Chemistry. or CHEM 204 Physical Chemistry/Biological Sciences 1..

² If chosen, students take either PHGY 209 Mammalian Physiology 1. or MIMM 211 Introductory Microbiology..

U2

6 credits selected from:

Expand allContract all

Course	Title	Credits
BIOC 220	Laboratory Methods in Biochemistry and Molecular Biology 1.	3
BIOC 320	Laboratory Methods in Biochemistry and Molecular Biology 2.	3
BIOL 301	Cell and Molecular Laboratory. ¹	4
MIMM 384	Molecular Microbiology Laboratory. ¹	3
MIMM 385	Laboratory in Immunology. ¹	3
PHGY 212	Introductory Physiology Laboratory 1. ¹	1
PHGY 213	Introductory Physiology Laboratory 2. ¹	1

3 credits selected from:

Course	Title	Credits
BIOC 503	Biochemistry of Immune Diseases.	3
MIMM 414	Advanced Immunology.	3
MIMM 509	Inflammatory Processes.	3
6 credits selected from:		
Expand allContract all		
Course	Title	Credits
ANAT 458	Membranes and Cellular Signaling. ¹	3
BIOC 404	Biophysical Methods in Biochemistry.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3

¹ Students may take

BIOC 458	Membranes and Cellular Signaling. ¹	3	Breadth requirement: at least 9 credits must be taken from the Basic Life Sciences List,
BIOC 503	Biochemistry of Immune Diseases.	3	at least 3 credits from the Health Social Sciences List,
BIOL 520	Gene Activity in Development.	3	at least 3 credits from the Empirical Science and Technology List.
EXMD 504	Biology of Cancer.	3	The remaining 9 credits may be selected from any of the lists.
MIMM 413	Parasitology.	3	
MIMM 414	Advanced Immunology.	3	
MIMM 465	Bacterial Pathogenesis.	3	
MIMM 466	Viral Pathogenesis.	3	
MIMM 509	Inflammatory Processes.	3	
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3	
PHAR 503	Drug Discovery and Development 1.	3	
PHAR 504	Drug Discovery and Development 2.	3	
PHGY 488	Stem Cell Biology.	3	

¹ If chosen, students take either ANAT 458 Membranes and Cellular Signaling, or BIOC 458 Membranes and Cellular Signaling., but not both.

Interdisciplinary Life Sciences Minor (B.Sc.) (24 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 24

Program Description

The Interdisciplinary Life Sciences Minor will allow students from the earth, physical, math, and computational science areas to broaden their studies with some basic life sciences, health social science, and empirical technological science. The Minor is 24 credits and allows students flexibility in their course selections. Students must take 9 credits from an extensive list of basic life science courses, 3 credits from an extensive list of health and social science courses, and 3 credits from an empirical and technological science list. The remaining 9 credits may be taken from courses listed in any of the three categories.

Please note: Students studying in Anatomy and Cell Biology; Biochemistry; Honours Immunology; Microbiology and Immunology; Neuroscience; Pharmacology; and Physiology are not permitted to complete this Minor.

Interested students should contact the Interdisciplinary Programs Adviser.

Complementary Courses (24 credits)

The 24 credits required for this program must satisfy the following criteria:

At least 18 credits must be outside the student's main discipline.

Depth requirement:

at least 6 credits must be at the 300 level or above.

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function. ¹	3
ANAT 214	Systemic Human Anatomy.	3
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 321	Circuitry of the Human Brain.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 450	Protein Structure and Function.	3
BIOC 458	Membranes and Cellular Signaling.	3
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 202	Basic Genetics.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 320	Evolution of Brain and Behaviour.	3
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 222	Introductory Organic Chemistry 2.	4
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
MIMM 211	Introductory Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 387	The Business of Science.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3
NSCI 201	Introduction to Neuroscience 2.	3

NUTR 307	Metabolism and Human Nutrition.	3	PSYC 304	Child Development.	3
PATH 300	Human Disease.	3	PSYC 333	Personality and Social Psychology.	3
PHAR 300	Drug Action.	3	PSYC 412	Child Development: Psychopathology .	3
PHAR 301	Drugs and Disease.	3	PSYC 413	Cognitive Development.	3
PHAR 303	Principles of Toxicology.	3	PSYC 414	Social Development.	3
PHAR 503	Drug Discovery and Development 1.	3	SOCI 225	Medicine and Health in Modern Society.	3
PHAR 504	Drug Discovery and Development 2.	3	SOCI 309	Health and Illness.	3
PHGY 209	Mammalian Physiology 1.	3	SOCI 310	Sociology of Mental Health.	3
PHGY 210	Mammalian Physiology 2.	3	SOCI 365	Health and Development.	3
PHGY 311	Channels, Synapses and Hormones.	3	SOCI 515	Medicine and Society.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3	SOCI 525	Health Care Systems in Comparative Perspective.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3	SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
PHGY 314	Integrative Neuroscience.	3			
PSYC 211	Introductory Behavioural Neuroscience.	3			
PSYC 311	Human Cognition and the Brain.	3			
PSYC 317	Genes and Behaviour.	3			
PSYC 318	Behavioural Neuroscience 2.	3			
PSYC 342	Hormones and Behaviour.	3			

¹ Students take either ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function., but not both.

Health Social Science

At least 3 credits from:

Expand allContract all

Course	Title	Credits		Credits
ANTH 204	Anthropology of Meaning.	3	BIOL 309	Mathematical Models in Biology.
ANTH 227	Medical Anthropology.	3	BIOL 373	Biometry.
ANTH 302	New Horizons in Medical Anthropology.	3	COMP 202	Foundations of Programming.
ANTH 314	Psychological Anthropology 01.	3	COMP 462	Computational Biology Methods.
ECON 440	Health Economics.	3	GEOG 202	Statistics and Spatial Analysis.
GEOG 221	Environment and Health.	3	MATH 203	Principles of Statistics 1.
GEOG 303	Health Geography.	3	MATH 204	Principles of Statistics 2.
HIST 249	Health and the Healer in Western History.	3	MATH 323	Probability. ¹
HIST 335	Science and Medicine in Canada.	3	MATH 324	Statistics.
HIST 350	Science and the Enlightenment.	3	PSYC 204	Introduction to Psychological Statistics.
HIST 381	Colonial Africa.	3	PSYC 305	Statistics for Experimental Design.
HIST 424	Gender, Sexuality and Medicine.	3		
HSEL 308	Issues in Women's Health.	3		
HSEL 309	Women's Reproductive Health.	3		
PHIL 237	Contemporary Moral Issues.	3		
PHIL 343	Biomedical Ethics.	3		
POLI 417	Health Care in Canada.	3		
PSYC 215	Social Psychology.	3		

Empirical Science and Technology

At least 3 credits from:

Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3
COMP 202	Foundations of Programming.	3
COMP 462	Computational Biology Methods.	3
GEOG 202	Statistics and Spatial Analysis.	3
MATH 203	Principles of Statistics 1.	3
MATH 204	Principles of Statistics 2.	3
MATH 323	Probability. ¹	3
MATH 324	Statistics.	3
PSYC 204	Introduction to Psychological Statistics.	3
PSYC 305	Statistics for Experimental Design.	3

¹ Students who have already received credit for MATH 324 Statistics. will NOT receive credit for GEOG 202 Statistics and Spatial Analysis., MATH 203 Principles of Statistics 1., PSYC 204 Introduction to Psychological Statistics., BIOL 373 Biometry., MATH 204 Principles of Statistics 2., or PSYC 305 Statistics for Experimental Design..

Kinesiology Minor (B.Sc.) (24 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

The Minor Kinesiology is designed to provide students in B.Sc. programs with basic but comprehensive knowledge of scientific bases

of human physical activity and its relationship with health and well-being.

Students registered in the Minor Kinesiology may not take additional courses outside the Faculties of Arts and of Science.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

Required Courses (15 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
EDKP 206	Biomechanics of Human Movement.	3
EDKP 261	Motor Development.	3
EDKP 395	Exercise Physiology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

Complementary Courses (9 credits)

9 credits, three of the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
EDKP 330	Physical Activity and Public Health.	3
EDKP 394	Historical Perspectives.	3
EDKP 396	Adapted Physical Activity.	3
EDKP 405	Sport in Society.	3
EDKP 444	Ergonomics.	3
EDKP 445	Exercise Metabolism.	3
EDKP 446	Physical Activity and Ageing.	3
EDKP 447	Motor Control.	3
EDKP 448	Exercise and Health Psychology.	3
EDKP 449	Neuromuscular and Inflammatory Pathophysiology.	3
EDKP 485	Cardiopulmonary Exercise Pathophysiology.	3
EDKP 495	Scientific Principles of Training.	3
EDKP 498	Sport Psychology.	3
EDKP 566	Advanced Biomechanics	3

Management (For Non-Management Students) Minor (B.Sc.) (18 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following

Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

9 credits selected from:

Course	Title	Credits
MGCR 211	Introduction to Financial Accounting.	3
MGCR 222	Introduction to Organizational Behaviour.	3
MGCR 271	Business Statistics. ¹	3
MGCR 293	Managerial Economics. ²	3
MGCR 331	Information Technology Management . ³	3
MGCR 341	Introduction to Finance.	3
MGCR 352	Principles of Marketing. ³	3
MGCR 372	Operations Management.	3
MGCR 382	International Business.	3

¹ 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.
² Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.
³ Prerequisite: MGCR 271 Business Statistics. or another equivalent Statistics course approved by the Program Adviser.

9 credits selected from any Management courses not already chosen from the first list or any 300- or 400-level Management courses for which prerequisites have been met.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

Mathematics Minor (B.Sc.) (24 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

The Minor may be taken in conjunction with any primary program in the Faculty of Science (other than programs in Mathematics). Students should declare their intention to follow the Minor Mathematics at the beginning of the penultimate year and should obtain approval for the

selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

It is strongly recommended that students in the Minor program take MATH 323 Probability.. The remaining credits may be freely chosen from the required and complementary courses for majors and honours students in Mathematics, with the obvious exception of courses that involve duplication of material. Alternatively, up to 6 credits may be allowed for appropriate courses from other departments.

Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program. However, with an approved choice of substantial courses, the overlap restriction may be relaxed to 9 credits for students whose primary program requires 60 credits or more, and to 12 credits when the primary program requires 72 credits or more.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra. ¹	3
MATH 315	Ordinary Differential Equations.	3

¹ MATH 223 Linear Algebra. may be replaced by MATH 235 Algebra 1. and MATH 236 Algebra 2.. In this case, the complementary credit requirement is reduced by 3 credits.

Complementary Courses (15 credits)

15 credits selected from the required and complementary courses for majors and honours students in Mathematics, with MATH 323 Probability. strongly recommended; alternatively, up to 6 credits may be allowed for appropriate courses from other departments.

Statistics Minor (B.Sc.) (27 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 27

Program Description

(24-27 credits)

Students may complete this program with a minimum of 24 credits or a maximum of 27 credits.

The Minor may be taken in conjunction with any primary program in the Faculty of Science (other than those with a main component in Statistics). Students should declare their intention to follow the Minor Statistics at the beginning of the penultimate year and must obtain approval for the selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

All courses counted towards the Minor must be passed with a grade of C or better. Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program. However, with an approved choice of substantial courses, the overlap restriction may be relaxed to 9 credits for students whose primary program requires 60

credits or more, and to 12 credits when the primary program requires 72 credits or more.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3

Complementary Courses (9-12 credits)

9-12 credits selected from:

Expand allContract all

Course	Title	Credits
CHEM 593	Statistical Mechanics and Machine Learning for Chemistry.	3
COMP 451	Fundamentals of Machine Learning.	3
COMP 551	Applied Machine Learning.	4
GEOG 351	Quantitative Methods.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 209	Fundamentals of Statistical Modeling and Inference.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 562	Theory of Machine Learning.	4
PHYS 362	Statistical Mechanics.	3
PHYS 559	Advanced Statistical Mechanics.	3
SOCI 504	Quantitative Methods 1.	3

No more than 6 credits from the above list of complementary courses may be taken outside the Department of Mathematics and Statistics.

Mathematics Liberal Program - Core Science Component (B.Sc.) (45 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science
Program credit weight: 45

Program Description

The B.Sc.; Liberal Program – Core Science Component in Mathematics provides a general overview of Mathematics, including a rigorous foundation and exploration of the different branches of Mathematics,

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering the Core Science Component in Mathematics are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Guidelines for Selection of Courses

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following and to complete the Computer Science Minor:

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 335	Groups, Tilings and Algorithms.	3

MATH 340	Discrete Mathematics.	3
MATH 417	Linear Optimization.	3

Students interested in probability and statistics are advised to take

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 525	Sampling Theory and Applications.	4

Students interested in applied mathematics should take

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 417	Linear Optimization.	3

Students considering a career in secondary school teaching are advised to take

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 346	Number Theory.	3
MATH 348	Euclidean Geometry.	3

Students interested in careers in business, industry or government are advised to select courses from the following list:

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 417	Linear Optimization.	3
MATH 423	Applied Regression.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 525	Sampling Theory and Applications.	4

Required Courses (27 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2. ²	3
MATH 249	Honours Complex Variables.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations. ²	3
MATH 316	Complex Variables.	3
MATH 323	Probability.	3

¹ Students who have successfully completed a course equivalent to MATH 222 Calculus 3. with a grade of C or better may omit MATH 222 Calculus 3., but must replace it with 3 credits of complementary courses.

² Students may select either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. but not both.

Complementary Courses (18 credits)

6 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 324	Statistics.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 340	Discrete Mathematics.	3

12 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 318	Mathematical Logic.	3
MATH 319	Partial Differential Equations .	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 346	Number Theory.	3
MATH 348	Euclidean Geometry.	3
MATH 352	Problem Seminar.	1
MATH 378	Nonlinear Optimization .	3
MATH 410	Majors Project.	3

MATH 417	Linear Optimization.	3
MATH 423	Applied Regression.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 451	Introduction to General Topology.	3
MATH 462	Machine Learning .	3
MATH 463	Convex Optimization.	3
MATH 510	Quantitative Risk Management.	4
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 545	Introduction to Time Series Analysis.	4

Statistics Liberal Program - Core Science Component (B.Sc.) (48 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 48

Program Description

(45 or 48 credits)

This program provides training in statistics, with a solid mathematical core, and basic training in computing. With strong performance in an appropriate selection of courses, this program can lead to "A.Stat." professional accreditation from the Statistical Society of Canada, which is regarded as the entry level requirement for Statisticians practising in Canada.

Students may complete this program with a minimum of 45 credits or a maximum of 48 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering the Core Science Component in Statistics are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any

deficiencies in these courses over and above the 45 credits required for the program.

Expand all			Contract all	COMP 350	Numerical Computing.	3
Course	Title	Credits		MATH 209	Fundamentals of Statistical Modeling and Inference.	3
MATH 133	Linear Algebra and Geometry.	3		MATH 243	Analysis 2.	3
MATH 140	Calculus 1.	3		MATH 314	Advanced Calculus.	3
MATH 141	Calculus 2.	4				

Required Courses (27 credits)

Expand all		Contract all				
Course	Title	Credits	MATH 317	Numerical Analysis.	1	3
COMP 202	Foundations of Programming. ¹	3	MATH 326	Nonlinear Dynamics and Chaos.	3	
MATH 204	Principles of Statistics 2. ²	3	MATH 327	Matrix Numerical Analysis.	3	
MATH 222	Calculus 3. ³	3	MATH 329	Theory of Interest.	3	
MATH 235	Algebra 1. ⁴	3	MATH 340	Discrete Mathematics.	3	
MATH 236	Algebra 2.	3	MATH 350	Honours Discrete Mathematics .	3	
MATH 242	Analysis 1.	3	MATH 378	Nonlinear Optimization .	3	
MATH 323	Probability. ²	3	MATH 417	Linear Optimization.	3	
MATH 324	Statistics. ²	3	MATH 430	Mathematical Finance.	3	
MATH 423	Applied Regression.	3	MATH 463	Convex Optimization.	3	

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming., but must replace it by either COMP 250 Introduction to Computer Science. or COMP 350 Numerical Computing..

- Students have to take MATH 204 Principles of Statistics 2. prior to MATH 324 Statistics..

3 Students who have successfully completed a course equivalent to MATH 222 Calculus 3. with a grade of C or better may omit MATH 222 Calculus 3., but must replace it with 3 credits of complementary courses.

MATH 236 Algebra 2. is an equivalent prerequisite to MATH 223 Linear Algebra. for required and complementary Computer Science courses listed below.

¹ If chosen, students can take either MATH 317 Numerical Analysis or COMP 350 Numerical Computing, but not both.

At least 9 credits selected from:

Expand all		
Course	Title	Credits
COMP 551	Applied Machine Learning.	4
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning. 1	3
MATH 410	Majors Project. 1	3
MATH 420	Independent Study. 1	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 462	Machine Learning .	3
MATH 510	Quantitative Risk Management.	4
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 527D1	Statistical Data Science Practicum. 1	3
MATH 527D2	Statistical Data Science Practicum. 1	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

Complementary Courses (18 or 21 credits)

0-3 credits from:

Expand all			Contract all
Course	Title	Credits	
MATH 203	Principles of Statistics I	3	1

¹ A student who has not completed the equivalent of MATH 203 Principles of Statistics 1. on entering the program must consult and academic adviser and take MATH 203 Principles of Statistics 1. in the first semester, increasing the total number of program credits from 45 to 48.

At least 6 credits selected from:

[Expand all](#) [Contract all](#)

MATH 598	Topics in Probability & Statistics	1
WCOM 314	Communicating Science.	3

- ¹ If chosen, students can take at most one of MATH 410 Majors Project., MATH 420 Independent Study., MATH 527D1 Statistical Data Science Practicum./MATH 527D2 Statistical Data Science Practicum., and WCOM 314 Communicating Science..

Mathematics Major (B.Sc.) (54 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 54

Program Description

The B.Sc.; Major in Mathematics provides a general overview of Mathematics including a rigorous foundation and the exploration of the different branches of Mathematics.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering the Major program are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 54 credits of required courses.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Guidelines for Selection of Courses in the Major Program

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following and to complete the Computer Science Minor:

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 318	Mathematical Logic.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 340	Discrete Mathematics.	3
MATH 417	Linear Optimization.	3

Students interested in probability and statistics are advised to take

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 525	Sampling Theory and Applications.	4

Students interested in applied mathematics should take

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 417	Linear Optimization.	3

Students considering a career in secondary school teaching are advised to take

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 346	Number Theory.	3
MATH 348	Euclidean Geometry.	3

Students interested in careers in business, industry or government are advised to select courses from the following list:

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3

MATH 417	Linear Optimization.	3	MATH 318	Mathematical Logic.	3
MATH 423	Applied Regression.	3	MATH 319	Partial Differential Equations .	3
MATH 430	Mathematical Finance.	3	MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 447	Introduction to Stochastic Processes.	3	MATH 327	Matrix Numerical Analysis.	3
MATH 523	Generalized Linear Models.	4	MATH 329	Theory of Interest.	3
MATH 525	Sampling Theory and Applications.	4	MATH 338	History and Philosophy of Mathematics.	3

Required Courses (27 credits)

Note: Students who have done well in MATH 235 Algebra 1. and MATH 242 Analysis 1. should consider entering the Honours stream by registering in MATH 251 Honours Algebra 2. and MATH 255 Honours Analysis 2. instead of MATH 236 Algebra 2. and MATH 243 Analysis 2..

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 249	Honours Complex Variables. ²	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations. ²	3
MATH 316	Complex Variables.	3
MATH 323	Probability.	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 451	Introduction to General Topology.	3
MATH 462	Machine Learning .	3
MATH 463	Convex Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3
MATH 510	Quantitative Risk Management.	4
MATH 523	Generalized Linear Models.	4
MATH 525	Sampling Theory and Applications.	4
MATH 545	Introduction to Time Series Analysis.	4

¹ Students who have successfully completed a course equivalent to MATH 222 Calculus 3. with a grade of C or better may omit MATH 222 Calculus 3., but must replace it with 3 credits of complementary courses.

² Students may select either MATH 249 Honours Complex Variables. or MATH 316 Complex Variables. but not both.

Complementary Courses (27 credits)

6-12 credits selected from the following:

Expand allContract all

Course	Title	Credits
MATH 317	Numerical Analysis.	3
MATH 324	Statistics.	3
MATH 335	Groups, Tilings and Algorithms.	3
MATH 340	Discrete Mathematics.	3

15-21 credits selected from the following: at least 6 credits must be at the 400 or 500 level.

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3

If necessary, 6 additional credits in Mathematics or related disciplines selected in consultation with the Adviser.

Statistics Major (B.Sc.) (54 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 54

Program Description

The program provides training in statistics, with a solid mathematical core, and basic training in computing. With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A. Stat from the Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada. The students may complete this program with 54-57 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering the Major in Statistics program are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 54 credits of program courses.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

In addition, a student that has not completed the equivalent of MATH 203 Principles of Statistics 1. upon entering the program must consult an academic adviser. If a student is advised to take MATH 203 Principles of Statistics 1., this course has to be taken as a complementary course in the first semester, increasing the total number of program credits from 54 to 57.

Students are strongly advised to complete all required courses and all Part I complementary courses by the end of U2, except for MATH 423 Applied Regression. and MATH 523 Generalized Linear Models..

Students interested in the professional accreditation should consult an academic adviser.

Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions, and to take MATH 556 Mathematical Statistics 1. and MATH 557 Mathematical Statistics 2. as complementary courses.

Required Courses (34 credits)

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2. ¹	3
MATH 208	Introduction to Statistical Computing.	3
MATH 222	Calculus 3. ²	3
MATH 235	Algebra 1. ³	3
MATH 236	Algebra 2. ³	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 323	Probability. ¹	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3
MATH 523	Generalized Linear Models.	4

- ¹ Students must take MATH 204 Principles of Statistics 2. before taking
² MATH 324 Statistics.
³ Students who have successfully completed a course equivalent to MATH 222 Calculus 3. with a grade of C or better may omit MATH 222 Calculus 3., but must replace it with MATH 314 Advanced Calculus..
³ MATH 236 Algebra 2. is an equivalent prerequisite to MATH 223 Linear Algebra. for required and complementary Computer Science courses listed below.

Complementary Courses (20-23 credits)

0-3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 203	Principles of Statistics 1.	3

Part I: 6 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 350	Numerical Computing. ¹	3
MATH 209	Fundamentals of Statistical Modeling and Inference.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
MATH 316	Complex Variables.	3
MATH 317	Numerical Analysis. ¹	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 340	Discrete Mathematics.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 378	Nonlinear Optimization .	3
MATH 417	Linear Optimization.	3
MATH 430	Mathematical Finance.	3
MATH 463	Convex Optimization.	3

¹ If chosen, students take either MATH 317 Numerical Analysis. or COMP 350 Numerical Computing., but not both.

Part II: 14 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 451	Fundamentals of Machine Learning. ¹	3
COMP 551	Applied Machine Learning. ¹	4
MATH 308	Fundamentals of Statistical Learning.	3

MATH 410	Majors Project. ²	3
MATH 420	Independent Study. ²	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 462	Machine Learning.	3
MATH 510	Quantitative Risk Management.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 527D1	Statistical Data Science Practicum. ²	3
MATH 527D2	Statistical Data Science Practicum. ²	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 598	Topics in Probability & Statistics	4
WCOM 314	Communicating Science.	3

¹ If chosen, students can take either COMP 451 Fundamentals of Machine Learning. or COMP 551 Applied Machine Learning., but not both.
² If chosen, students can at most one of MATH 410 Majors Project., MATH 420 Independent Study., MATH 527D1 Statistical Data Science Practicum./MATH 527D2 Statistical Data Science Practicum., and WCOM 314 Communicating Science..

Program Prerequisites

Students entering the Joint Major in Mathematics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 72 credits of courses in the program specification.

Expand all Contract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Required Courses (54 credits)

Expand all Contract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 360	Algorithm Design.	3
MATH 222	Calculus 3.	3
MATH 235	Algebra 1.	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 315	Ordinary Differential Equations.	3
MATH 317	Numerical Analysis. ²	3
MATH 318	Mathematical Logic.	3
MATH 323	Probability.	3
MATH 340	Discrete Mathematics.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming. but can replace it with an additional Computer Science complementary course.

² Student cannot replace MATH 317 Numerical Analysis. with COMP 350 Numerical Computing..

Mathematics and Computer Science Major (B.Sc.) (72 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 72

Program Description

The B.Sc.; Major in Mathematics and Computer Science emphasizes fundamental skills in mathematics and computer science, while exploring the interaction between the two fields.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

Complementary Courses (18 credits)

9 credits from the following.

Other MATH courses, at the undergraduate level, not included in this list may be chosen in consultation with an adviser.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 319	Partial Differential Equations .	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 327	Matrix Numerical Analysis.	3
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 346	Number Theory.	3
MATH 348	Euclidean Geometry.	3
MATH 378	Nonlinear Optimization .	3
MATH 410	Majors Project.	3
MATH 417	Linear Optimization.	3
MATH 423	Applied Regression.	3
MATH 427	Statistical Quality Control.	3
MATH 430	Mathematical Finance.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 463	Convex Optimization.	3
MATH 478	Computational Methods in Applied Mathematics .	3

9 credits selected from Computer Science courses at the 300 level or above (except COMP 396 Undergraduate Research Project.) and ECSE 508 Multi-Agent Systems..

Statistics and Computer Science Major (B.Sc.) (72 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 72

Program Description

This program provides students with a solid training in both computer science and statistics together with the necessary mathematical background. As statistical endeavours involve ever increasing amounts of data, some students may want training in both disciplines.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

[Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.](#)

Program Prerequisites

Students entering the Joint Major in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 72 credits of required courses.

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Required Courses (51 credits)

[Expand all](#)
[Contract all](#)

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 251	Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 330	Theory of Computation. ²	3
COMP 350	Numerical Computing.	3
COMP 360	Algorithm Design.	3
MATH 222	Calculus 3. ³	3
MATH 223	Linear Algebra.	3
MATH 235	Algebra 1. ³	3
MATH 236	Algebra 2.	3
MATH 242	Analysis 1.	3
MATH 314	Advanced Calculus.	3
MATH 317	Numerical Analysis. ²	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MATH 423	Applied Regression.	3

¹ Students who have sufficient knowledge in a programming language do not need to take COMP 202 Foundations of Programming, but can replace it with an additional Computer Science complementary course.

² Students take either COMP 350 Numerical Computing, or MATH 317 Numerical Analysis., but not both.

³ Students take either MATH 223 Linear Algebra, or MATH 236 Algebra 2., but not both.
Both courses are equivalent as prerequisites for required and complementary Computer Science courses listed.

Complementary Courses (21 credits)

12 credits in Mathematics selected from:

Course	Title	Credits
MATH 204	Principles of Statistics 2. ¹	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 327	Matrix Numerical Analysis. ²	3
MATH 340	Discrete Mathematics.	3
MATH 350	Honours Discrete Mathematics . ²	3
MATH 352	Problem Seminar. ³	1
MATH 410	Majors Project.	3
MATH 427	Statistical Quality Control.	3
MATH 447	Introduction to Stochastic Processes.	3
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 527D1	Statistical Data Science Practicum. ³	3
MATH 527D2	Statistical Data Science Practicum.	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods. ⁴	4
MATH 578	Numerical Analysis 1. ⁴	4
MATH 598	Topics in Probability & Statistics	4

¹ In order to receive credit for MATH 204 Principles of Statistics 2., 2 students must take it before MATH 324 Statistics..

If chosen, students take either MATH 340 Discrete Mathematics. or

3 MATH 350 Honours Discrete Mathematics ., but not both.

If chosen, students can take one of MATH 410 Majors Project., and MATH 527D1 Statistical Data Science Practicum./MATH 527D2 Statistical Data Science Practicum., but not both.

4 MATH 578 Numerical Analysis 1. and COMP 540 Matrix Computations. cannot both be taken for program credit.

9 credits in Computer Science selected as follows:

At least 6 credits selected from:

Course	Title	Credits
COMP 424	Artificial Intelligence.	3
COMP 462	Computational Biology Methods. ¹	3
COMP 540	Matrix Computations.	4
COMP 547	Cryptography and Data Security.	4
COMP 551	Applied Machine Learning.	4

COMP 564	Advanced Computational Biology Methods and Research.	3
COMP 567	Discrete Optimization 2.	3

¹ MATH 578 Numerical Analysis 1. and COMP 540 Matrix Computations. cannot both be taken for program credit.

The remaining Computer Science credits are selected from COMP courses at the 300 level or above (except COMP 396 Undergraduate Research Project.) and ECSE 508 Multi-Agent Systems..

Applied Mathematics Honours (B.Sc.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

The B.Sc.; Honours in Applied Mathematics provides an in-depth training, at the honours level, in “discrete” or “continuous” applied mathematics. It gives the foundations and necessary tools to explore some areas such as numerical analysis, continuous and discrete optimization, graph theory, discrete probability. The program also provides the background required to pursue interdisciplinary research at the interface between mathematics and other fields such as biology, physiology, and the biomedical sciences. This program may be completed with a minimum of 60 credits or a maximum of 63 credits.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222 Calculus 3..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 222 Calculus 3. are considered equivalent.

Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Note: COMP 202 Foundations of Programming.—or an equivalent introduction to computer programming course—is a program prerequisite. UO students may take COMP 202 Foundations of Programming. as a Freshman Science course; new U1 students should take it as an elective in their first semester.

Students who transfer to Honours in Applied Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (36-39 credits)

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science. ¹	3
COMP 252	Honours Algorithms and Data Structures. ²	3
MATH 222	Calculus 3. ²	3
MATH 247	Honours Applied Linear Algebra. ³	3
MATH 251	Honours Algebra 2. ³	3
MATH 255	Honours Analysis 2.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 358	Honours Advanced Calculus.	3
MATH 376	Honours Nonlinear Dynamics.	3
MATH 470	Honours Research Project.	3
MATH 475	Honours Partial Differential Equations.	3

¹ Students with limited programming experience should take COMP 202 Foundations of Programming. or COMP 204 Computer Programming for Life Sciences. or COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science..

- ² Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..
³ Students select either MATH 251 Honours Algebra 2. or MATH 247 Honours Applied Linear Algebra., but not both.

Complementary Courses (24 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1..

Advising Notes:

Students interested in continuous applied mathematics are urged to choose these as part of their Complementary Courses: MATH 454 Honours Analysis 3., MATH 455 Honours Analysis 4. and MATH 478 Computational Methods in Applied Mathematics ., and are advised to choose additional courses from MATH 387 Honours Numerical Analysis., MATH 397 Honours Matrix Numerical Analysis., MATH 555 Fluid Dynamics., MATH 574 Dynamical Systems., MATH 578 Numerical Analysis 1., MATH 579 Numerical Differential Equations., MATH 580 Advanced Partial Differential Equations 1 ., MATH 581 Advanced Partial Differential Equations 2 .

Students interested in discrete applied mathematics are advised to choose from these as part of their Complementary Courses: COMP 362 Honours Algorithm Design., MATH 456 Honours Algebra 3., MATH 457 Honours Algebra 4., MATH 517 Honours Linear Optimization., MATH 547 Stochastic Processes., MATH 550 Combinatorics., MATH 552 Combinatorial Optimization..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 249	Honours Complex Variables.	3
MATH 466	Honours Complex Analysis.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 387	Honours Numerical Analysis.	3
MATH 397	Honours Matrix Numerical Analysis.	3

0-6 credits from the following courses for which no Honours equivalent exists:

Expand allContract all

Course	Title	Credits
MATH 204	Principles of Statistics 2.	3
MATH 208	Introduction to Statistical Computing.	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 329	Theory of Interest.	3
MATH 338	History and Philosophy of Mathematics.	3
MATH 430	Mathematical Finance.	3
MATH 451	Introduction to General Topology.	3
MATH 462	Machine Learning.	3
MATH 478	Computational Methods in Applied Mathematics .	3

0-12 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 362	Honours Algorithm Design.	3
MATH 352	Problem Seminar.	1
MATH 365	Honours Groups, Tilings and Algorithms.	3
MATH 377	Honours Number Theory.	3
MATH 398	Honours Euclidean Geometry . ¹	3
MATH 454	Honours Analysis 3.	3
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3
MATH 457	Honours Algebra 4.	3
MATH 458	Honours Differential Geometry.	3
MATH 462	Machine Learning.	3
MATH 480	Honours Independent Study.	3
MATH 488	Honours Set Theory.	3

¹ Not open to students who have taken MATH 354.

All MATH 500-level courses.

Other courses with the permission of the Department.

Mathematics Honours (B.Sc.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

The B.Sc.; Honours in Mathematics provides an in-depth training, at the honours level, in mathematics. It gives the foundations and tools needed to explore diverse areas of mathematics such as analysis, number theory, geometry, geometric group theory, and probability.

This program may be completed with a minimum of 60 credits or a maximum of 63 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 141 Calculus 2./MATH 222 Calculus 3. are considered equivalent.

Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (33-36 credits)

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3. ¹	3
MATH 249	Honours Complex Variables.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3
MATH 325	Honours Ordinary Differential Equations.	3

MATH 356	Honours Probability.	3	MATH 577	Geometry and Topology 2.	4
MATH 358	Honours Advanced Calculus.	3	MATH 580	Advanced Partial Differential Equations 1.	4
MATH 454	Honours Analysis 3.	3	MATH 581	Advanced Partial Differential Equations 2.	4
MATH 455	Honours Analysis 4.	3	MATH 587	Advanced Probability Theory 1.	4
MATH 456	Honours Algebra 3.	3	MATH 589	Advanced Probability Theory 2. ¹	4
MATH 457	Honours Algebra 4.	3	MATH 590	Advanced Set Theory.	4
MATH 470	Honours Research Project.	3	MATH 591	Model Theory	4

¹ Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..

Complementary Courses (27 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1..

12-21 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 350	Honours Discrete Mathematics .	3
MATH 357	Honours Statistics.	3
MATH 458	Honours Differential Geometry.	3
MATH 475	Honours Partial Differential Equations.	3
MATH 488	Honours Set Theory. ¹	3
MATH 518	Introduction to Algebraic Geometry.	4
MATH 550	Combinatorics.	4
MATH 552	Combinatorial Optimization.	4
MATH 553	Algorithmic Game Theory.	4
MATH 564	Real Analysis and Measure Theory.	4
MATH 565	Functional Analysis.	4
MATH 566	Advanced Complex Analysis and Riemann Surfaces	4
MATH 570	Higher Algebra 1.	4
MATH 571	Higher Algebra 2.	4
MATH 576	Geometry and Topology 1.	4

0-3 credits from the following courses for which no Honours equivalent exists:

Expand allContract all

Course	Title	Credits
MATH 318	Mathematical Logic.	3
MATH 378	Nonlinear Optimization .	3
MATH 430	Mathematical Finance.	3
MATH 451	Introduction to General Topology.	3
MATH 462	Machine Learning .	3

0-6 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 352	Problem Seminar.	1
MATH 365	Honours Groups, Tilings and Algorithms.	3
MATH 376	Honours Nonlinear Dynamics.	3
MATH 377	Honours Number Theory.	3
MATH 387	Honours Numerical Analysis.	3
MATH 398	Honours Euclidean Geometry .	3
MATH 480	Honours Independent Study.	3

all MATH 500-level courses not listed above.

Students may select other courses with the permission of the Department.

Statistics Honours (B.Sc.) (63 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts

Program credit weight: 63

Program Description

The B.Sc.: Honours in Statistics provides training, at the honours level, in statistics, with a solid mathematical core, and basic training in computing. With a suitable selection of complementary courses, the program can focus on probability, mathematical statistics, applied statistics, actuarial science and finance, or data science. With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A.Stat from the

Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending on whether or not they are required to take MATH 222 Calculus 3..

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses or their equivalents:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 141 Calculus 2./MATH 222 Calculus 3. are considered equivalent.

Required Courses (25-28 credits)

Students who have not completed an equivalent of MATH 222 Calculus 3. on entering the program must consult an academic adviser and take MATH 222 Calculus 3. as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. are not required to take MATH 222 Calculus 3..

Note: Students with limited knowledge of computer programming should take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science.. UO students may take COMP 202 Foundations of Programming. as a Freshman Science course; new U1 students should take one of these courses as an elective in their first semester.

Note: Students who wish to take MATH 204 Principles of Statistics 2. as a complementary course are strongly advised to take MATH 203 Principles of Statistics 1. beforehand, in their first semester or their first year.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science. ¹	3
MATH 208	Introduction to Statistical Computing. ²	3
MATH 222	Calculus 3. ³	3
MATH 247	Honours Applied Linear Algebra. ³	3
MATH 251	Honours Algebra 2. ³	3
MATH 255	Honours Analysis 2.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 470	Honours Research Project.	3
MATH 533	Regression and Analysis of Variance. ⁴	4

¹ Students with limited programming experience should take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering . or equivalent before COMP 250 Introduction to Computer Science..

² Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on

³ entering the program are not required to take MATH 222 Calculus 3..
³ Students select either MATH 251 Honours Algebra 2. or MATH 247 Honours Applied Linear Algebra., but not both.

Complementary Courses (35 credits)

Advising notes:

Students wishing to pursue mathematical statistics in graduate school are advised to take MATH 587 Advanced Probability Theory 1. and recommended to take honours mathematics courses as complementary courses in Part II, in particular MATH 358 Honours Advanced Calculus., MATH 454 Honours Analysis 3. (preferably prior to MATH 587 Advanced Probability Theory 1.), and MATH 455 Honours Analysis 4..

Students wishing to pursue applied statistics and/or careers as statisticians in industry or government are advised to take MATH 523 Generalized Linear Models., MATH 524 Nonparametric Statistics., MATH 547 Stochastic Processes., at least one of MATH 525 Sampling Theory and Applications. and MATH 558 Design of Experiments., and as many courses as possible from Part III of the list of Complementary Courses below. Students interested in obtaining the A-Stat accreditation from the Statistical Society of Canada should discuss their course selection with the academic adviser.

Students with interest in probability are advised to choose from the following as part of their Complementary Courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 547	Stochastic Processes.	4
MATH 587	Advanced Probability Theory 1.	4
MATH 589	Advanced Probability Theory 2.	4

Students with interest in actuarial science are advised to choose from the following as part of their Complementary Courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 430	Mathematical Finance.	3
MATH 524	Nonparametric Statistics.	4
MATH 545	Introduction to Time Series Analysis.	4
MATH 547	Stochastic Processes.	4

Students with interest in data science and machine learning are advised to choose from the following as part of their Complementary Courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 251	Algorithms and Data Structures.	3
COMP 370	Introduction to Data Science.	3
COMP 424	Artificial Intelligence.	3
COMP 551	Applied Machine Learning.	4
MATH 308	Fundamentals of Statistical Learning.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 378	Nonlinear Optimization .	3
MATH 462	Machine Learning .	3
MATH 517	Honours Linear Optimization.	4
MATH 562	Theory of Machine Learning.	0-4
MATH 563	Honours Convex Optimization .	4

Part I

3 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

3 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 and MATH 254.

Part II

6-11 credits in mathematics and computer science selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 252	Honours Algorithms and Data Structures.	3
MATH 248	Honours Vector Calculus.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 350	Honours Discrete Mathematics .	3
MATH 352	Problem Seminar.	1
MATH 358	Honours Advanced Calculus. ¹	3
MATH 376	Honours Nonlinear Dynamics.	3
MATH 387	Honours Numerical Analysis.	3
MATH 397	Honours Matrix Numerical Analysis.	3
MATH 398	Honours Euclidean Geometry .	3
MATH 454	Honours Analysis 3. ²	3
MATH 455	Honours Analysis 4.	3
MATH 458	Honours Differential Geometry.	3
MATH 466	Honours Complex Analysis.	3
MATH 475	Honours Partial Differential Equations.	3
MATH 478	Computational Methods in Applied Mathematics .	3
MATH 480	Honours Independent Study.	3
MATH 527D1	Statistical Data Science Practicum.	3
MATH 527D2	Statistical Data Science Practicum.	3

and any 500-level course offered by the Department of Mathematics and Statistics not listed in Part III below.

¹ Students can select either MATH 248 Honours Vector Calculus. or

² MATH 358 Honours Advanced Calculus., but not both. Students may obtain credit for both MATH 455 Honours Analysis 4. and MATH 587 Advanced Probability Theory..

Part III

18-23 credits in probability and statistics selected as follows:

15-23 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 204	Principles of Statistics 2. ¹	3
MATH 308	Fundamentals of Statistical Learning.	3
MATH 511	Analysis of Categorical Data.	4
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4

MATH 545	Introduction to Time Series Analysis.	4
MATH 547	Stochastic Processes.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4
MATH 587	Advanced Probability Theory 1.	4
MATH 589	Advanced Probability Theory 2.	4

¹ Students must take MATH 204 Principles of Statistics 2. before taking MATH 357 Honours Statistics. or MATH 533 Regression and Analysis of Variance.. Moreover, it is strongly advised to take MATH 203 Principles of Statistics 1. before taking MATH 204 Principles of Statistics 2..

0-3 credits from the following courses for which no Honours equivalent exists:

Expand allContract all

Course	Title	Credits
MATH 329	Theory of Interest.	3
MATH 378	Nonlinear Optimization .	3
MATH 427	Statistical Quality Control.	3

0-8 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 370	Introduction to Data Science.	3
COMP 424	Artificial Intelligence.	3
COMP 451	Fundamentals of Machine Learning.	3
COMP 551	Applied Machine Learning.	4
COMP 579	Reinforcement Learning.	4
COMP 588	Probabilistic Graphical Models.	4
MATH 430	Mathematical Finance.	3
MATH 462	Machine Learning .	3
MATH 510	Quantitative Risk Management.	4
MATH 562	Theory of Machine Learning.	4
MATH 594	Topics in Mathematics and Statistics . ¹	4
MATH 598	Topics in Probability & Statistics ¹	4

¹ Students may select either MATH 594 Topics in Mathematics and Statistics . or MATH 598 Topics in Probability & Statistics but not both.

Statistics and Computer Science Honours (B.Sc.) (79 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 79

Program Description

The program provides a rigorous training in the area of Computer Science and Statistics at the honours level. Exploration of the interactions between the two fields.

Students may complete this program with a minimum of 76 credits or a maximum of 79 credits depending on whether or not they are exempt from taking COMP 202 Foundations of Programming..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering the Joint Honours in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 76-79 credits of courses in the program.

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4

Required Courses (43 credits)

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming. ¹	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 330	Theory of Computation.	3
COMP 362	Honours Algorithm Design. ²	3
MATH 247	Honours Applied Linear Algebra. ²	3
MATH 248	Honours Vector Calculus. ²	3
MATH 251	Honours Algebra 2.	3

MATH 255	Honours Analysis 2.	3
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 533	Regression and Analysis of Variance.	4

¹ Students who have sufficient knowledge in a programming language
² are not required to take COMP 202 Foundations of Programming..
² Students take either MATH 251 Honours Algebra 2. or MATH 247 Honours Applied Linear Algebra., but not both.

Complementary Courses (36 credits)

3 credits selected from:

Expand allContract all		
Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1.	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1, and MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all		
Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1.	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1 and MATH 254 Honours Analysis 1.

3 credits selected from:

Expand allContract all		
Course	Title	Credits
MATH 387	Honours Numerical Analysis.	3
MATH 397	Honours Matrix Numerical Analysis.	3

8-12 credits selected from:

Expand allContract all		
Course	Title	Credits
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 525	Sampling Theory and Applications.	4
MATH 527D1	Statistical Data Science Practicum.	3
MATH 527D2	Statistical Data Science Practicum.	3
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4
MATH 558	Design of Experiments.	4
MATH 559	Bayesian Theory and Methods.	4

0-4 credits selected from:		
Expand all		Contract all
Course	Title	Credits
MATH 350	Honours Discrete Mathematics .	3
MATH 352	Problem Seminar.	1
MATH 454	Honours Analysis 3.	3
MATH 462	Machine Learning .	3
MATH 545	Introduction to Time Series Analysis.	4
MATH 563	Honours Convex Optimization .	4
MATH 578	Numerical Analysis 1.	4
MATH 587	Advanced Probability Theory 1.	4
MATH 594	Topics in Mathematics and Statistics .	4

¹ MATH 578 Numerical Analysis 1. and COMP 540 Matrix Computations cannot both be taken for program credit

6-15 credits selected from:

Expand all			Contract all
Course	Title	Credits	
COMP 424	Artificial Intelligence.	3	
COMP 462	Computational Biology Methods.	3	
COMP 540	Matrix Computations.	4	
COMP 547	Cryptography and Data Security.	4	
COMP 551	Applied Machine Learning.	4	
COMP 552	Combinatorial Optimization.	4	
COMP 564	Advanced Computational Biology Methods and Research.	0-3	
COMP 567	Discrete Optimization 2.	3	

¹ MATH 578 Numerical Analysis 1. and COMP 540 Matrix Computations. cannot both be taken for program credit.

0-9 credits selected from Computer Science courses selected from COMP courses at the 300 level or above excluding COMP 396 Undergraduate Research Project..

Mathematics and Computer Science Honours (B.Sc.) (78 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 78

Program Description

The B.Sc.; Honours in Mathematics and Computer Science provides a rigorous training, at the honours level, in mathematics and computer science, while exploring the interaction between the two fields. This program may be completed with a minimum of 72 credits or a maximum of 78 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that they have sufficient background to enter the program. The minimum requirements are the following courses or their equivalencies:

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

In particular, MATH 150 Calculus A./MATH 151 Calculus B. and MATH 140 Calculus 1./MATH 141 Calculus 2./MATH 222 Calculus 3. are considered equivalent.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (33-36 credits)

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 362	Honours Algorithm Design. ¹	3
MATH 222	Calculus 3.	3
MATH 251	Honours Algebra 2.	3
MATH 255	Honours Analysis 2.	3
MATH 350	Honours Discrete Mathematics .	3

¹ Students who have successfully completed MATH 150 Calculus A./MATH 151 Calculus B. or an equivalent of MATH 222 Calculus 3. on entering the program are not required to take MATH 222 Calculus 3..

Complementary Courses (39-42 credits)

0-3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	1 3
COMP 204	Computer Programming for Life Sciences.	1 3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3

¹ Students who have sufficient knowledge of computer programming are not required to take COMP 202 Foundations of Programming./COMP 204 Computer Programming for Life Sciences./COMP 208 Computer Programming for Physical Sciences and Engineering ..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 245	Honours Algebra 1. ¹	3

¹ It is strongly recommended that students take both MATH 245 Honours Algebra 1. and MATH 254 Honours Analysis 1..

3 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 248	Honours Vector Calculus.	3
MATH 358	Honours Advanced Calculus.	3

9-18 credits selected from:

Expand allContract all

Course	Title	Credits
MATH 356	Honours Probability.	3
MATH 357	Honours Statistics.	3
MATH 387	Honours Numerical Analysis.	3

MATH 454	Honours Analysis 3. ¹	3
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3
MATH 457	Honours Algebra 4.	3

0-9 credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 396 Undergraduate Research Project.. ECSE 508 Multi-Agent Systems. may also be taken.

Microbiology and Immunology Liberal Program - Core Science Component (B.Sc.) (50 credits)

Offered by: Microbiology & Immunology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 50

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses

U1 Required Courses (19 credits)

Expand allContract all		
Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4
MIMM 211	Introductory Microbiology.	3
MIMM 212	Laboratory in Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3

¹ Students who have taken CHEM 212 Introductory Organic Chemistry 1. in CEGEP are exempt and must replace these credits with an elective course(s).

U1 Complementary Course (3 credits)

3 credits, select one from:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

U1, U2, or U3 Required Course (3 credits)

3 credits, select one from:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

U2 Required Courses (16 credits)

Expand allContract all

Course	Title	Credits
MIMM 301	Scientific Writing Skills in MIMM.	1
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 384	Molecular Microbiology Laboratory.	3
MIMM 385	Laboratory in Immunology.	3

U3 Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MIMM 387	The Business of Science.	3
MIMM 413	Parasitology.	3
MIMM 414	Advanced Immunology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3
MIMM 509	Inflammatory Processes.	3

U1, U2 or U3 Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 458	Membranes and Cellular Signaling.	3
BIOC 311	Metabolic Biochemistry.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3

BIOC 454	Nucleic Acids.	3	for professional schools, graduate education, or entry into jobs in industry or research institutes.
BIOC 458	Membranes and Cellular Signaling.	3	
BIOL 300	Molecular Biology of the Gene.	3	
BIOL 309	Mathematical Models in Biology.	3	
BIOL 314	Molecular Biology of Cancer.	3	
BIOT 505	Selected Topics in Biotechnology.	3	
CHEM 203	Survey of Physical Chemistry.	3	
CHEM 204	Physical Chemistry/Biological Sciences 1. ¹	3	
CHEM 222	Introductory Organic Chemistry 2. ²	4	
CHEM 302	Introductory Organic Chemistry 3.	3	
COMP 204	Computer Programming for Life Sciences.	3	
COMP 206	Introduction to Software Systems.	3	
COMP 250	Introduction to Computer Science.	3	
EXMD 504	Biology of Cancer.	3	
MIMM 387	The Business of Science.	3	
MIMM 390	SEA-PHAGES: Phage Discovery.	3	
MIMM 391	SEA-PHAGES: Genome Annotation.	3	
MIMM 413	Parasitology.	3	
MIMM 414	Advanced Immunology.	3	
MIMM 465	Bacterial Pathogenesis.	3	
MIMM 466	Viral Pathogenesis.	3	
MIMM 496D1	Microbiology Advanced Research Project.	3	
MIMM 496D2	Microbiology Advanced Research Project .	3	
MIMM 497D1	Immunology Advanced Research Project.	3	
MIMM 497D2	Immunology Advanced Research Project.	3	
MIMM 509	Inflammatory Processes.	3	
PATH 300	Human Disease.	3	
PHAR 300	Drug Action.	3	
PHAR 301	Drugs and Disease.	3	
PHGY 209	Mammalian Physiology 1.	3	
PHGY 210	Mammalian Physiology 2.	3	

¹ Students who have taken CHEM 212 Introductory Organic Chemistry 1. or CHEM 222 Introductory Organic Chemistry 2. in CEGEP must replace it with another complementary course.

Microbiology and Immunology Major (B.Sc.) (66 credits)

Offered by: Microbiology & Immunology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The Major program is designed for students who want to acquire a substantial background in microbiology and immunology and related disciplines (chemistry, biology, biochemistry) which will prepare them

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses

U1 Required Courses (26 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4
CHEM 222	Introductory Organic Chemistry 2. ²	4
MIMM 211	Introductory Microbiology.	3
MIMM 212	Laboratory in Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3

¹ Students who have taken CHEM 212 Introductory Organic Chemistry 1. in CEGEP are exempt and must replace these credits with an elective course(s).

² Students who have taken CHEM 222 Introductory Organic Chemistry 2. in CEGEP are exempt and must replace these credits with an elective course(s).

One of:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

U1, U2, or U3 Required Course (3 credits)

One of:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

U2 Required Courses (19 credits)

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
MIMM 301	Scientific Writing Skills in MIMM.	1
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3
MIMM 384	Molecular Microbiology Laboratory.	3
MIMM 385	Laboratory in Immunology.	3

U3 Required Course (3 credits)

Expand allContract all

Course	Title	Credits
MIMM 413	Parasitology.	3

Complementary Courses

U3 Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MIMM 414	Advanced Immunology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3

Complementary Courses (9 credits)

9 credits selected from:

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 458	Membranes and Cellular Signaling. ¹	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3
BIOC 458	Membranes and Cellular Signaling. ¹	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOT 505	Selected Topics in Biotechnology.	3
CHEM 203	Survey of Physical Chemistry.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3

¹ Students may select either ANAT 458 Membranes and Cellular Signaling. or BIOC 458 Membranes and Cellular Signaling., but not both.

Microbiology and Immunology Honours (B.Sc.) (72 credits)

Offered by: Microbiology & Immunology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 72

Program Description

The Honours program is designed to offer, in addition to the substantial background given by the Major program, a significant research experience in a laboratory within the Department during the U3 year. Students are prepared for this independent research project by following an advanced laboratory course in U2. This program is intended to prepare students for graduate study in microbiology and immunology or related fields, but could also be chosen by students intending to enter medical research after medical school, or intending to enter the job market in a laboratory research environment.

Students intending to apply to Honours must follow the Major program in U1 and U2 and must obtain a CGPA of at least 3.50 at the end of their U2 year. For graduation in Honours, students must pass all required courses with a C or better, and achieve a sessional GPA of at least 3.30 in the U3 year.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses

U1 Required Courses (26 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. <small>1</small>	4
CHEM 222	Introductory Organic Chemistry 2. <small>2</small>	4
MIMM 211	Introductory Microbiology.	3
MIMM 212	Laboratory in Microbiology.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3

1 Students who have taken CHEM 212 Introductory Organic Chemistry 1. in CEGEP are exempt and must replace these credits with an elective course(s).

2 Students who have taken CHEM 222 Introductory Organic Chemistry 2. in CEGEP are exempt and must replace these credits with an elective course(s).

One of:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

U1, U2, or U3 Required Course (3 credits)

One of:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1.	3
PSYC 204	Introduction to Psychological Statistics.	3

U2 Required Courses (19 credits)

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
MIMM 301	Scientific Writing Skills in MIMM.	1
MIMM 314	Intermediate Immunology.	3
MIMM 323	Microbial Physiology.	3
MIMM 324	Fundamental Virology.	3

MIMM 384	Molecular Microbiology Laboratory.	3
MIMM 385	Laboratory in Immunology.	3

U3 Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
MIMM 413	Parasitology.	3
MIMM 501D1	Honours Research Project in Immunology. <small>1</small>	6
MIMM 501D2	Honours Research Project in Immunology. <small>1</small>	6
MIMM 502D1	Honours Research Project in Microbiology. <small>1</small>	6
MIMM 502D2	Honours Research Project in Microbiology.	6

1 Students take either MIMM 501D1 Honours Research Project in Immunology. and MIMM 501D2 Honours Research Project in Immunology. or MIMM 502D1 Honours Research Project in Microbiology. and MIMM 502D2 Honours Research Project in Microbiology..

U3 Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
MIMM 414	Advanced Immunology.	3
MIMM 465	Bacterial Pathogenesis.	3
MIMM 466	Viral Pathogenesis.	3

Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
ANAT 262	Introductory Molecular and Cell Biology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 458	Membranes and Cellular Signaling.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 404	Biophysical Methods in Biochemistry.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3
BIOC 458	Membranes and Cellular Signaling.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 520	Gene Activity in Development.	3
BIOT 505	Selected Topics in Biotechnology.	3
CHEM 203	Survey of Physical Chemistry.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 302	Introductory Organic Chemistry 3.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 206	Introduction to Software Systems.	3

COMP 250	Introduction to Computer Science.	3	0-10 credits from the following list of 200- and 300-level courses:
EXMD 504	Biology of Cancer.	3	Note 2: Since CHEM 212 Introductory Organic Chemistry 1. is a prerequisite/corequisite for NSCI 200 Introduction to Neuroscience 1. and BIOL 200 Molecular Biology., students must take CHEM 212 Introductory Organic Chemistry 1. if they have not yet done so.
MIMM 387	The Business of Science.	3	
MIMM 390	SEA-PHAGES: Phage Discovery.	3	
MIMM 391	SEA-PHAGES: Genome Annotation.	3	
MIMM 414	Advanced Immunology.	3	Expand allContract all
MIMM 465	Bacterial Pathogenesis.	3	Course Title Credits
MIMM 466	Viral Pathogenesis.	3	ANAT 212 Molecular Mechanisms of Cell Function. 1 3
MIMM 509	Inflammatory Processes.	3	BIOC 212 Molecular Mechanisms of Cell Function. 1 3
PATH 300	Human Disease.	3	BIOL 201 Cell Biology and Metabolism. 3
PHAR 300	Drug Action.	3	BIOL 202 Basic Genetics. 3
PHAR 301	Drugs and Disease.	3	BIOL 300 Molecular Biology of the Gene. 3
PHAR 562	Neuropharmacology.	3	BIOL 306 Neural Basis of Behaviour. 2 3
PHAR 563	Endocrine Pharmacology.	3	BIOL 320 Evolution of Brain and Behaviour. 3
PHGY 209	Mammalian Physiology 1.	3	BIOL 389 Laboratory in Neurobiology. 3
PHGY 210	Mammalian Physiology 2.	3	CHEM 212 Introductory Organic Chemistry 1. 4
			NEUR 310 Cellular Neurobiology. 3
			PHGY 311 Channels, Synapses and Hormones. 3
			PHGY 314 Integrative Neuroscience. 2 3
			PSYC 302 Pain. 3
			PSYC 311 Human Cognition and the Brain. 3
			PSYC 315 Computational Psychology. 3
			PSYC 317 Genes and Behaviour. 3
			PSYC 318 Behavioural Neuroscience 2. 3
			PSYC 342 Hormones and Behaviour. 3

Neuroscience Minor (B.Sc.) (25 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 25

Program Description

"Please note: this Minor is only available to students studying in the faculty of Science."

This Minor is intended to provide students with a basic understanding of how the nervous system functions. The Minor is composed of 24-25 credits: 9 required and 15-16 complementary. For the 15-16 complementary credits, at least 12-13 must be from outside the student's home department and at least 6 of the 12-13 must be at the 400 or 500 level.

Note 1: A maximum of 6-7 credits can be counted for both the student's primary program and for the Minor in Neuroscience.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
NSCI 200	Introduction to Neuroscience 1.	3
NSCI 201	Introduction to Neuroscience 2.	3

Complementary Courses (16 credits)

15-16 credits selected as follows:

- At least 12-13 credits must be from outside the student's home department.
- At least 6 of the 12-13 credits have to be at the 400 or 500 level.

- ¹ Students may select ANAT 212 Molecular Mechanisms of Cell Function. or BIOC 212 Molecular Mechanisms of Cell Function. or
² BIOL 201 Cell Biology and Metabolism..
 Students may select either BIOL 306 Neural Basis of Behaviour. or PHGY 314 Integrative Neuroscience..

6-15 credits from the following list of 400- and 500-level courses:

Course	Title	Credits
BIOL 530	Advances in Neuroethology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 580	Genetic Approaches to Neural Systems.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3
PHGY 425	Analyzing Physiological Systems.	3
PHGY 451	Advanced Neurophysiology.	3
PHGY 524	Chronobiology.	3
PHGY 556	Topics in Systems Neuroscience.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PSYC 427	Sensorimotor Neuroscience.	3

PSYC 433	Cognitive Science.	3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 514	Neurobiology of Memory.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

Program Prerequisites

Students may complete this program with a minimum of 65 or a maximum of 67 credits.

Notes on admission to the Neuroscience Major program: Enrolment in the Neuroscience Major is limited to a total of 50 students per year. UO students seeking admission to this program should consult the neuroscience website for admissions requirements and should have completed the courses listed below or equivalent.

Expand allContract all

Course	Title	Credits
BIOL 112	Cell and Molecular Biology.	3
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 139	Calculus 1 with Precalculus. ¹	4
MATH 140	Calculus 1. ²	3
MATH 141	Calculus 2. ¹	4
MATH 150	Calculus A. ²	4
MATH 151	Calculus B. ³	4
PHYS 101	Introductory Physics - Mechanics. ³	4
PHYS 102	Introductory Physics - Electromagnetism. ⁴	4
PHYS 131	Mechanics and Waves. ³	4
PHYS 142	Electromagnetism and Optics. ⁴	4

¹ Students complete one of MATH 139 Calculus 1 with Precalculus.,
² MATH 140 Calculus 1. OR MATH 150 Calculus A..

³ Students complete one of either MATH 141 Calculus 2. OR MATH 151 Calculus B..

⁴ Students complete one of either PHYS 101 Introductory Physics - Mechanics. OR PHYS 131 Mechanics and Waves..

⁴ Students complete one of either PHYS 102 Introductory Physics - Electromagnetism. OR PHYS 142 Electromagnetism and Optics..

Neuroscience Major (B.Sc.) (65 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 65

Program Description

The Neuroscience Major is a focused program for students interested in how the nervous system functions. It is highly interdisciplinary and borrows principles and methodologies from a number of fields including: biology, biochemistry, physiology, psychology, mathematics, physics, computer science, and immunology. To ensure that they have the appropriate foundation, students are required to take 29 credits in lower-level courses from physiology, biology, mathematics, computer science, psychology, and ethics. The program offers students a concentrated selection of 15 credits to be taken from one of three areas of current scientific activities in the neurosciences:

- Cell/Molecular,
- Neurophysiology/Computation, or
- Cognition/Behaviour.

In addition, students select 21 credits from a wide array of complementary courses to obtain more specialized training in areas of neuroscience that best suit their interests.

Enrolment in the Neuroscience Major is limited to a total of 50 students per year. UO students seeking admission to this program should consult the neuroscience website for admissions requirements and should have completed the courses listed below or their equivalents.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Core Required Courses (20 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 Introductory Organic Chemistry 1. in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
CHEM 212	Introductory Organic Chemistry 1.	4
NSCI 200	Introduction to Neuroscience 1.	3
NSCI 201	Introduction to Neuroscience 2.	3
NSCI 300	Neuroethics.	3
NSCI 400D1	Neuroscience Seminar.	.5
NSCI 400D2	Neuroscience Seminar.	.5
PSYC 311	Human Cognition and the Brain.	3

Complementary Courses (45-47 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 324	Statistics.	3
PSYC 305	Statistics for Experimental Design.	3

3 credits from:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3

3 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 Calculus 3. at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
MATH 222	Calculus 3.	3

Streams

15 credits selected from one of the following streams:

A. Cell and Molecular Stream

9 credits as follows:

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOL 202	Basic Genetics.	3
PHGY 311	Channels, Synapses and Hormones.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits from:

Expand allContract all

Course	Title	Credits
MIMM 214	Introductory Immunology: Elements of Immunity.	3
PHAR 300	Drug Action.	3

B. Neurophysiology/Neural Computation Stream

3 credits as follows:

Expand allContract all

Course	Title	Credits
PHGY 311	Channels, Synapses and Hormones.	3

3 credits as follows:

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits from:

Course	Title	Credits
BIOL 306	Neural Basis of Behaviour.	3
PHGY 314	Integrative Neuroscience.	3

6 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 Calculus 3. at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

Expand allContract all

Course	Title	Credits
ANAT 321	Circuitry of the Human Brain.	3
BIOL 309	Mathematical Models in Biology.	3
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3

¹ Students take either COMP 206 Introduction to Software Systems. or COMP 250 Introduction to Computer Science., but not both.

C. Cognitive/Behavioural Stream

6 credits as follows:

Course	Title	Credits
PSYC 213	Cognition.	3
PSYC 318	Behavioural Neuroscience 2.	3

3 credits from:

Course	Title	Credits
BIOL 306	Neural Basis of Behaviour.	3
PHGY 314	Integrative Neuroscience.	3

6 credits from:

Expand allContract all

Course	Title	Credits			
ANAT 321	Circuitry of the Human Brain.	3	PHGY 314	Integrative Neuroscience.	3
PSYC 302	Pain.	3	PSYC 213	Cognition.	3
PSYC 317	Genes and Behaviour.	3	PSYC 302	Pain.	3
PSYC 342	Hormones and Behaviour.	3	PSYC 315	Computational Psychology.	3
			PSYC 317	Genes and Behaviour.	3
			PSYC 318	Behavioural Neuroscience 2.	3
			PSYC 319	Computational Models - Cognition.	3
			PSYC 342	Hormones and Behaviour.	3

Other Complementary Courses

21-23 credits chosen as follows:

3-16 credits from:

Expand allContract all

Course	Title	Credits	
BIOL 301	Cell and Molecular Laboratory.	4	
BIOL 389	Laboratory in Neurobiology.	3	
NSCI 410D1	Independent Research 1.	3	
NSCI 410D2	Independent Research 1.	3	
NSCI 420D1	Independent Research 2.	4.5	
NSCI 420D2	Independent Research 2.	4.5	

5-20 of the credits should be taken from the following lists. At least 15 of the 21-23 credits must be at the 400- or 500-level, which could include the above NSCI 410D1 Independent Research 1./NSCI 410D2 Independent Research 1. or NSCI 420D1 Independent Research 2./NSCI 420D2 Independent Research 2. research courses:

200- and 300-level Courses

Expand allContract all

Course	Title	Credits	
ANAT 321	Circuitry of the Human Brain.	3	
BIOC 212	Molecular Mechanisms of Cell Function.	3	
BIOC 311	Metabolic Biochemistry.	3	
BIOL 201	Cell Biology and Metabolism.	3	
BIOL 202	Basic Genetics.	3	
BIOL 300	Molecular Biology of the Gene.	3	
BIOL 306	Neural Basis of Behaviour.	3	
BIOL 307	Behavioural Ecology.	3	
BIOL 320	Evolution of Brain and Behaviour.	3	
CHEM 222	Introductory Organic Chemistry 2.	4	
COMP 206	Introduction to Software Systems.	3	
COMP 250	Introduction to Computer Science.	3	
MATH 223	Linear Algebra.	3	
MATH 315	Ordinary Differential Equations.	3	
MATH 323	Probability.	3	
MATH 324	Statistics.	3	
MIMM 214	Introductory Immunology: Elements of Immunity.	3	
MIMM 314	Intermediate Immunology.	3	
NEUR 310	Cellular Neurobiology.	3	
PHAR 300	Drug Action.	3	
PHGY 210	Mammalian Physiology 2.	3	
PHGY 311	Channels, Synapses and Hormones.	3	
			1 Students take either BIOL 201 Cell Biology and Metabolism. OR BIOC 212 Molecular Mechanisms of Cell Function., but not both.
			2 Students take either COMP 206 Introduction to Software Systems. or COMP 250 Introduction to Computer Science., but not both.

400- and 500-level Courses

Expand allContract all

Course	Title	Credits
BIOL 414	Invertebrate Brain Circuits and Behaviours .	3
BIOL 506	Neurobiology of Learning.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 580	Genetic Approaches to Neural Systems.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
BMDE 519	Biomedical Signals and Systems.	3
COMP 546	Computational Perception.	4
MATH 437	Mathematical Methods in Biology.	3
MIMM 414	Advanced Immunology.	3
MIMM 509	Inflammatory Processes.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3
NEUR 503	Computational Neuroscience.	3
NEUR 507	Topics in Radionuclide Imaging.	3
PHAR 562	Neuropharmacology.	3
PHGY 425	Analyzing Physiological Systems.	3
PHGY 451	Advanced Neurophysiology.	3
PHGY 513	Translational Immunology.	3
PHGY 524	Chronobiology.	3
PHGY 556	Topics in Systems Neuroscience.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 427	Sensorimotor Neuroscience.	3
PSYC 433	Cognitive Science.	3
PSYC 443	Affective Neuroscience.	0-3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 502	Psychoneuroendocrinology.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 513	Human Decision-Making.	3
PSYC 514	Neurobiology of Memory.	3

PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYC 529	Music Cognition.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

Required Courses (38 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 Introductory Organic Chemistry 1. in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for Honours Neuroscience.

Expand all Contract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOL 200	Molecular Biology.	3
CHEM 212	Introductory Organic Chemistry 1.	4
NSCI 200	Introduction to Neuroscience 1.	3
NSCI 201	Introduction to Neuroscience 2.	3
NSCI 300	Neuroethics.	3
NSCI 400D1	Neuroscience Seminar.	.5
NSCI 400D2	Neuroscience Seminar.	.5
NSCI 430D1	Honours Research Project.	4.5
NSCI 430D2	Honours Research Project.	4.5
PHGY 311	Channels, Synapses and Hormones.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 318	Behavioural Neuroscience 2.	3

Complementary Courses (36 credits)

3 credits from:

Expand all Contract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits from:

Expand all Contract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 204	Computer Programming for Life Sciences.	3

3 credits from:

Expand all Contract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 324	Statistics.	3
PSYC 305	Statistics for Experimental Design.	3

3 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 Calculus 3. at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for Honours Neuroscience.

Expand all Contract all

Neuroscience Honours (B.Sc.) (74 credits)

Offered by: Science (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 74

Program Description

The Honours program is intended for students who are interested in laboratory-based research and in acquiring a foundation in each of the 3 streams of the Neuroscience Major Program (cell and molecular; neurophysiology and computational; and cognition and behaviour). Students are admitted to the program after one year in a major.

Applicants must have taken a minimum of 27 graded credits in their U1 year, must have a CGPA of at least 3.5, and must have obtained minimum grades of B+ in both NSCI 200 Introduction to Neuroscience 1. and NSCI 201 Introduction to Neuroscience 2., as well as a minimum grade of C in BIOL 200 Molecular Biology., BIOC 212 Molecular Mechanisms of Cell Function. or BIOL 201 Cell Biology and Metabolism., and CHEM 212 Introductory Organic Chemistry 1.. Additional requirements for applying are provided on the Neuroscience website: (www.mcgill.ca/neuroscience). Meeting the minimum requirements does not guarantee admission to the Honours Neuroscience program.

To graduate from the program, students must have a CGPA of 3.30 and a minimum grade of B+ in NSCI 300 Neuroethics., NSCI 400D1 Neuroscience Seminar./ NSCI 400D2 and NSCI 430D1 Honours Research Project./NSCI 430D2 Honours Research Project..

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.30, and a minimum grade of B+ in NSCI 300 Neuroethics., NSCI 400D1 Neuroscience Seminar./ NSCI 400D2 and NSCI 430D1 Honours Research Project./NSCI 430D2 Honours Research Project..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
MATH 222	Calculus 3.	3

3 credits from:

Course	Title	Credits
ANAT 321	Circuitry of the Human Brain.	3
BIOL 306	Neural Basis of Behaviour.	3
PHGY 314	Integrative Neuroscience.	3

21 credits should be taken from the following lists. At least 15 of the 21 credits must be taken at the 400- or 500-level.

200- and 300-level Courses

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 306	Neural Basis of Behaviour.	3
BIOL 307	Behavioural Ecology.	3
BIOL 320	Evolution of Brain and Behaviour.	3
BIOL 389	Laboratory in Neurobiology.	3
CHEM 222	Introductory Organic Chemistry 2. ¹	4
COMP 206	Introduction to Software Systems. ¹	3
COMP 250	Introduction to Computer Science.	3
MATH 223	Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
MATH 324	Statistics.	3
MIMM 214	Introductory Immunology: Elements of Immunity.	3
MIMM 314	Intermediate Immunology.	3
NEUR 310	Cellular Neurobiology.	3
PHAR 300	Drug Action.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 314	Integrative Neuroscience.	3
PSYC 213	Cognition.	3
PSYC 302	Pain.	3
PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 342	Hormones and Behaviour.	3

¹ Students may take either COMP 206 Introduction to Software Systems. or COMP 250 Introduction to Computer Science., but not both.

400- and 500-level Courses

Course	Title	Credits
BIOL 414	Invertebrate Brain Circuits and Behaviours .	3
BIOL 506	Neurobiology of Learning.	3
BIOL 530	Advances in Neuroethology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 580	Genetic Approaches to Neural Systems.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
BMDE 519	Biomedical Signals and Systems.	3
COMP 546	Computational Perception.	4
MATH 437	Mathematical Methods in Biology.	3
MIMM 414	Advanced Immunology.	3
MIMM 509	Inflammatory Processes.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3
NEUR 503	Computational Neuroscience.	3
NEUR 507	Topics in Radionuclide Imaging.	3
PHAR 562	Neuropharmacology.	3
PHGY 425	Analyzing Physiological Systems.	3
PHGY 451	Advanced Neurophysiology.	3
PHGY 513	Translational Immunology.	3
PHGY 524	Chronobiology.	3
PHGY 556	Topics in Systems Neuroscience.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 427	Sensorimotor Neuroscience.	3
PSYC 433	Cognitive Science.	3
PSYC 443	Affective Neuroscience.	0-3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 502	Psychoneuroendocrinology.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 513	Human Decision-Making.	3
PSYC 514	Neurobiology of Memory.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYC 529	Music Cognition.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

Pharmacology Minor (B.Sc.) (24 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Science)**Degree:** Bachelor of Science**Program credit weight:** 24

Program Description

The Minor Pharmacology is intended for students registered in a complementary B.Sc. program who are interested in a focused

introduction to specialized topics in pharmacology to prepare them for professional schools, graduate education, or entry into jobs in industry or research institutes.

Students should declare their intent to enter the Minor in Pharmacology at the beginning of their U2 year. They must consult with, and obtain the approval of, the Coordinator for the Minor Program in the Department of Pharmacology and Therapeutics. Please contact the Student Affairs Coordinator: Chantal Grignon (undergradstudies.pharmacology@mcgill.ca; 514-398-3622).

All courses in the Minor program must be passed with a minimum grade C or better. Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3

Complementary Courses (18 credits)

3 credits selected from the following:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits selected from the following:

Expand allContract all

Course	Title	Credits
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3

12 credits selected from the following:

Expand allContract all

Course	Title	Credits
PHAR 303	Principles of Toxicology.	3
PHAR 503	Drug Discovery and Development 1. ¹	3
PHAR 504	Drug Discovery and Development 2. ¹	3
PHAR 505	Structural Pharmacology.	3
PHAR 508	Drug Discovery and Development 3.	3
PHAR 510	New Advances in Antimicrobial.	3
PHAR 540	Advances in Industrial Biotechnology .	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHAR 565	Epigenetic Drugs and Targets. ²	3
PHAR 599D1	Pharmacology Research Project. ²	3
PHAR 599D2	Pharmacology Research Project.	3

- ¹ Students may take either PHAR 503 Drug Discovery and Development 1. or PHAR 505 Structural Pharmacology..
² PHAR 599D1 Pharmacology Research Project. and PHAR 599D2 Pharmacology Research Project. are taken together.

Pharmacology Major (B.Sc.) (67 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 67

Program Description

This program incorporates extensive studies in Pharmacology with a strong component of related biomedical sciences, providing a solid preparation for employment opportunities or for entry into graduate or professional training programs. Students must consult the Student Affairs Coordinator upon entering the program and every year thereafter to verify courses and progress.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (40 credits)

U1

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4
CHEM 222	Introductory Organic Chemistry 2. ¹	4
PHAR 200	Introduction to Pharmacology 1.	1
PHAR 201	Introduction to Pharmacology 2.	1
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2.,

and/or MATH 203 Principles of Statistics 1. in CEGEP (as defined at: <http://www.mcgill.ca/students/transfercredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

U2

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOL 301	Cell and Molecular Laboratory.	4
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3
PHAR 303	Principles of Toxicology.	3

PHAR 505	Structural Pharmacology. ¹	3
PHAR 508	Drug Discovery and Development 3.	3
PHAR 510	New Advances in Antimicrobial.	3
PHAR 540	Advances in Industrial Biotechnology.	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHAR 565	Epigenetic Drugs and Targets.	3

¹ Students may take either PHAR 503 Drug Discovery and Development 1. or PHAR 505 Structural Pharmacology..

9 credits selected from the following courses:

Committee approval is required to substitute a science course not in the list below.

Complementary Courses (27 credits)

3 credits, one of (recommended to be taken in Year 1):

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function.	3
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits, one of (usually in Year 2):

Expand allContract all

Course	Title	Credits
CHEM 203	Survey of Physical Chemistry.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3

3 credits, one of (usually in Year 2):

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1. ¹	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP (as defined at: <http://www.mcgill.ca/students/transfercredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

9 credits selected from the following Pharmacology courses:

Expand allContract all

Course	Title	Credits
PHAR 503	Drug Discovery and Development 1. ¹	3
PHAR 504	Drug Discovery and Development 2.	3

ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking. ¹	3
ANAT 381	Experimental Embryology. ²	3
ANAT 458	Membranes and Cellular Signaling. ²	3
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3
BIOC 458	Membranes and Cellular Signaling. ²	3
BIOC 470	Lipids and Lipoproteins in Disease.	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOT 505	Selected Topics in Biotechnology.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 334	Advanced Materials.	3
CHEM 462	Green Chemistry.	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
CHEM 522	Stereochemistry.	3
CHEM 552	Physical Organic Chemistry.	3
COMP 204	Computer Programming for Life Sciences.	3
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
EXMD 504	Biology of Cancer.	3
EXMD 509	Gastrointestinal Physiology and Pathology. ³	3
HGEN 400	Genetics in Medicine.	3
MIMM 387	The Business of Science.	3
MIMM 414	Advanced Immunology.	3

MIMM 466	Viral Pathogenesis. ⁴	3
NEUR 310	Cellular Neurobiology.	3
PARA 410	Environment and Infection.	3
PATH 300	Human Disease.	3
PHAR 503	Drug Discovery and Development 1. ⁵	3
PHAR 504	Drug Discovery and Development 2.	3
PHAR 505	Structural Pharmacology. ⁵	3
PHAR 508	Drug Discovery and Development 3.	3
PHAR 510	New Advances in Antimicrobial.	3
PHAR 522D1	Fundamentals of Disease Therapy. ⁶	3
PHAR 522D2	Fundamentals of Disease Therapy. ⁶	3
PHAR 524	Clinical Mentorship.	3
PHAR 540	Advances in Industrial Biotechnology .	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHAR 565	Epigenetic Drugs and Targets.	3
PHAR 599D1	Pharmacology Research Project. ⁷	3
PHAR 599D2	Pharmacology Research Project. ⁷	3
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3
PHGY 425	Analyzing Physiological Systems.	3
PHGY 524	Chronobiology.	3
PPHS 501	Population Health and Epidemiology.	3
PSYC 302	Pain.	3
PSYC 305	Statistics for Experimental Design. ³	3
PSYC 311	Human Cognition and the Brain. ³	3
PSYC 317	Genes and Behaviour. ³	3
PSYC 318	Behavioural Neuroscience 2. ³	3
PSYT 301	Issues in Drug Dependence.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3
REDM 410	Writing Research Articles.	3

¹ Open to students who have the prerequisites.

Students may take either ANAT 458 Membranes and Cellular Signaling, or BIOC 458 Membranes and Cellular Signaling..

² Access to these courses is not guaranteed.

Access to these courses is not guaranteed. Open to students who have the prerequisites.

Students may take either PHAR 503 Drug Discovery and

⁶ Development 1. or PHAR 505 Structural Pharmacology..

If chosen, PHAR 522D1 Fundamentals of Disease Therapy, and

⁷ PHAR 522D2 Fundamentals of Disease Therapy, are taken together.

If chosen, PHAR 599D1 Pharmacology Research Project, and PHAR 599D2 Pharmacology Research Project, are taken together.

Pharmacology Honours (B.Sc.) (76 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 76

Program Description

The Honours program is designed as a preparation for graduate studies and research. In addition to the strong training provided by the Major program, it requires students to have direct research experience in a chosen area during their final year of study. Acceptance into the Honours program takes place in the Winter term of U2 and requires a CGPA of 3.50. Students who wish to enter the Honours program should follow the Major program; those who satisfactorily complete the first three terms with a CGPA of at least 3.50 and a mark of B+ or higher in core Pharmacology courses (PHAR 300 Drug Action., PHAR 301 Drugs and Disease., and PHAR 303 Principles of Toxicology.) are eligible for admission. Applications can be obtained from the office of the Department of Pharmacology in the McIntyre Medical Building or on the Departmental website.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (46 credits)

U1

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4
CHEM 222	Introductory Organic Chemistry 2. ¹	4
PHAR 200	Introduction to Pharmacology 1.	1
PHAR 201	Introduction to Pharmacology 2.	1
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2.,

and/or MATH 203 Principles of Statistics 1. in CEGEP (as defined at : <http://www.mcgill.ca/students/transfercredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

U2

Expand allContract all

Course	Title	Credits
BIOC 311	Metabolic Biochemistry.	3
BIOL 301	Cell and Molecular Laboratory.	4
PHAR 300	Drug Action.	3
PHAR 301	Drugs and Disease.	3
PHAR 303	Principles of Toxicology.	3

U3

Expand allContract all

Course	Title	Credits
PHAR 598D1	Honours Pharmacology Research Project.	3
PHAR 598D2	Honours Pharmacology Research Project.	3

Complementary Courses (30 credits)

3 credits, one of (highly recommended in Year 1):

Expand allContract all

Course	Title	Credits
ANAT 212	Molecular Mechanisms of Cell Function.	3
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits, one of (usually in Year 2):

Expand allContract all

Course	Title	Credits
CHEM 203	Survey of Physical Chemistry.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3

3 credits, one of (usually in Year 2):

Expand allContract all

Course	Title	Credits
BIOL 373	Biometry.	3
MATH 203	Principles of Statistics 1. ¹	3
PSYC 204	Introduction to Psychological Statistics.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1., CHEM 222 Introductory Organic Chemistry 2., and/or MATH 203 Principles of Statistics 1. in CEGEP (as defined at : <http://www.mcgill.ca/students/transfercredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

12 credits selected from the following Pharmacology courses:

Expand allContract all

Course	Title	Credits
PHAR 390	Laboratory in Pharmacology.	3
PHAR 503	Drug Discovery and Development 1. ¹	3
PHAR 504	Drug Discovery and Development 2.	3
PHAR 505	Structural Pharmacology.	3
PHAR 508	Drug Discovery and Development 3.	3
PHAR 510	New Advances in Antimicrobial.	3
PHAR 540	Advances in Industrial Biotechnology .	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PHAR 565	Epigenetic Drugs and Targets.	3

¹ Students may take either PHAR 503 Drug Discovery and Development 1. or PHAR 505 Structural Pharmacology..

9 credits selected for the following science courses:

Committee approval is required to substitute a science course not in the list below.

Expand allContract all

Course	Title	Credits
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology. ¹	3
ANAT 458	Membranes and Cellular Signaling. ²	3
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIOC 312	Biochemistry of Macromolecules.	3
BIOC 450	Protein Structure and Function.	3
BIOC 454	Nucleic Acids.	3
BIOC 458	Membranes and Cellular Signaling. ²	3
BIOC 470	Lipids and Lipoproteins in Disease. ³	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOT 505	Selected Topics in Biotechnology.	3
CHEM 302	Introductory Organic Chemistry 3.	3
CHEM 334	Advanced Materials.	3
CHEM 462	Green Chemistry. ¹	3
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
CHEM 522	Stereochemistry.	3
CHEM 552	Physical Organic Chemistry.	3
COMP 204	Computer Programming for Life Sciences.	3

EXMD 401	Physiology and Biochemistry Endocrine Systems.	3	⁵ Students may take either PHAR 503 Drug Discovery and Development 1. or PHAR 505 Structural Pharmacology..
EXMD 504	Biology of Cancer.	3	⁶ If chosen, PHAR 522D1 Fundamentals of Disease Therapy. and PHAR 522D2 Fundamentals of Disease Therapy. are taken together.
EXMD 509	Gastrointestinal Physiology and Pathology.	3	
HGEN 400	Genetics in Medicine.	3	
MIMM 387	The Business of Science.	3	
MIMM 414	Advanced Immunology.	3	
MIMM 466	Viral Pathogenesis.	3	
NEUR 310	Cellular Neurobiology.	3	
PARA 410	Environment and Infection.	3	
PATH 300	Human Disease.	3	
PHAR 390	Laboratory in Pharmacology.	3	
PHAR 503	Drug Discovery and Development 1.	3	
PHAR 504	Drug Discovery and Development 2.	3	
PHAR 505	Structural Pharmacology.	3	
PHAR 508	Drug Discovery and Development 3.	3	
PHAR 510	New Advances in Antimicrobial.	3	
PHAR 522D1	Fundamentals of Disease Therapy.	3	
PHAR 522D2	Fundamentals of Disease Therapy.	3	
PHAR 524	Clinical Mentorship.	3	
PHAR 540	Advances in Industrial Biotechnology .	3	
PHAR 562	Neuropharmacology.	3	
PHAR 563	Endocrine Pharmacology.	3	
PHAR 565	Epigenetic Drugs and Targets.	3	
PHGY 311	Channels, Synapses and Hormones.	3	
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3	
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3	
PHGY 314	Integrative Neuroscience.	3	15 credits to be selected as follows:
PHGY 425	Analyzing Physiological Systems.	3	One of:
PHGY 524	Chronobiology.	3	
PPHS 501	Population Health and Epidemiology.	3	
PSYC 302	Pain.	3	
PSYC 305	Statistics for Experimental Design.	3	
PSYC 311	Human Cognition and the Brain.	3	
PSYC 317	Genes and Behaviour.	3	
PSYC 318	Behavioural Neuroscience 2.	3	
PSYT 301	Issues in Drug Dependence.	3	
PSYT 500	Advances: Neurobiology of Mental Disorders.	3	
REDM 410	Writing Research Articles.	3	

¹ Open to students who have the prerequisites

² Students may take either ANAT 458 Membranes and Cellular Signaling. or BIOC 458 Membranes and Cellular Signaling..

³ Access to these courses is not guaranteed

Access to these courses is not guaranteed. Open to students who have the prerequisites.

Physics Minor (B.Sc.) (18 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science; Bachelor of Arts and Science

Program credit weight: 18

Program Description

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

Expand allContract all		Credits
Course	Title	
PHYS 257	Experimental Methods 1.	3

Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

Expand allContract all		Credits
Course	Title	
PHYS 230	Dynamics of Simple Systems.	3
PHYS 251	Honours Classical Mechanics 1.	3

One of:

Expand allContract all		Credits
Course	Title	
PHYS 232	Heat and Waves.	3
PHYS 253	Thermal Physics.	3

One of:

Expand allContract all		Credits
Course	Title	
PHYS 241	Signal Processing.	3
PHYS 258	Experimental Methods 2.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 224	Physics of Music.	3
PHYS 228	Energy and the Environment.	3
PHYS 260	Modern Physics and Relativity.	3
PHYS 320	Introductory Astrophysics.	3
PHYS 346	Majors Quantum Physics.	3

One of:

Expand allContract all

Course	Title	Credits
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 350	Honours Electricity and Magnetism.	3

Electrical Engineering Minor (B.Sc.) (24 credits)

Offered by: Electrical & Computer Engr (Faculty of Science)**Degree:** Bachelor of Science**Program credit weight:** 24

Program Description

This Minor program is currently under review. Students are encouraged to contact Department of Electrical & Computer Engineering for detailed information.

[Program registration done by Student Affairs Office]

The Minor program does not carry professional recognition. Only students who satisfy the requirements of the Major Physics are eligible for this Minor. Students registered for this option cannot count PHYS 241 Signal Processing toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course. Students who select ECSE 334 Introduction to Microelectronics in the Minor cannot count PHYS 328 Electronics toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ECSE 200	Electric Circuits 1.	3
ECSE 210	Electric Circuits 2.	3
ECSE 303	Signals and Systems 1.	3
ECSE 330	Introduction to Electronics.	3

Complementary Courses (12 credits)

3 credits from the following and 9 credits of ECSE courses at the 200, 300, or 400 level subject to approval by the Department of Electrical and Computer Engineering.

Expand allContract all

Course	Title	Credits
ECSE 305	Probability and Random Signals 1.	3
ECSE 334	Introduction to Microelectronics.	3

Physics Liberal Program - Core Science Component (B.Sc.) (45 credits)

Offered by: Physics (Faculty of Science)**Degree:** Bachelor of Science**Program credit weight:** 45

Program Description

The B.Sc.; Liberal Program - Core Science Component in Physics offers an overview of key physics topics, focusing on fundamentals. Topics include dynamics, electricity and magnetism, quantum mechanics, experimental methods and more. This program allows students also pursue a minor or major concentration in another discipline.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

One of:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3

MATH 133 Linear Algebra and Geometry, and either MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B..

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

Required Courses (36 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 333	Thermal and Statistical Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 346	Majors Quantum Physics.	3

Complementary Courses (9 credits)

9 credits selected from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
PHYS 328	Electronics.	3
PHYS 331	Topics in Classical Mechanics.	3
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 342	Majors Electromagnetic Waves.	3
PHYS 434	Optics.	3
PHYS 447	Applications of Quantum Mechanics.	3

Physics Major (B.Sc.) (63 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 63

Program Description

The B.Sc.; Major in Physics program covers a range of fundamental physical concepts from classical physics to modern topics relevant

to contemporary research. The program may be completed in 60-63 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

[Expand all](#)[Contract all](#)

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

7-8 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

Note: Either MATH 140 Calculus 1. and MATH 141 Calculus 2. or MATH 150 Calculus A. and MATH 151 Calculus B..

Required Courses (45 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
COMP 208	Computer Programming for Physical Sciences and Engineering .	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3

PHYS 241	Signal Processing.	3	PHYS 512	Computational Physics with Applications.	3
PHYS 257	Experimental Methods 1.	3	PHYS 519	Advanced Biophysics.	3
PHYS 258	Experimental Methods 2.	3	PHYS 521	Astrophysics.	3
PHYS 331	Topics in Classical Mechanics.	3			
PHYS 339	Measurements Laboratory in General Physics.	3			
PHYS 340	Majors Electricity and Magnetism.	3			
PHYS 342	Majors Electromagnetic Waves.	3			
PHYS 346	Majors Quantum Physics.	3			
PHYS 447	Applications of Quantum Mechanics.	3			

¹ Students coming into the program with sufficient knowledge of computer programming may replace COMP 208 Computer Programming for Physical Sciences and Engineering . with PHYS 512 Computational Physics with Applications. or another 3-credit COMP course at the 200 level or above after consulting with an adviser.

Complementary Courses (15-18 credits)

0-3 credits from:

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3. ¹	3

¹ Students who did not complete an equivalent to MATH 222 Calculus 3. on entering the program must take this course.

3 credits from:

Expand allContract all

Course	Title	Credits
PHYS 329	Statistical Physics with Biophysical Applications.	3
PHYS 333	Thermal and Statistical Physics.	3

12 credits from:

Expand allContract all

Course	Title	Credits
PHYS 319	Introduction to Biophysics.	3
PHYS 320	Introductory Astrophysics.	3
PHYS 321	Data Science and Observational Astrophysics.	3
PHYS 328	Electronics.	3
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 404	Climate Physics.	3
PHYS 432	Physics of Fluids.	3
PHYS 434	Optics.	3
PHYS 449	Majors Research Project. ¹	3
PHYS 459D1	Research Thesis. ^{1,2}	3
PHYS 459D2	Research Thesis. ^{1,2}	3
PHYS 469	Advanced Physics Laboratory 2.	3
PHYS 479	Physics Research Project.	3

- ¹ Note: A maximum of 6 credits of complementary courses may be from research courses PHYS 449 Majors Research Project., PHYS 479 Physics Research Project., and PHYS 459D1 Research Thesis./PHYS 459D2 Research Thesis..
² NOTE: If chosen, PHYS 459D1 Research Thesis. and PHYS 459D2 Research Thesis. are taken together.

Note: It is possible for students to transfer from the Major to the Honours program after U1 year if they have passed all the 200-level required courses listed above and MATH 314 Advanced Calculus. and MATH 315 Ordinary Differential Equations. with a C or better, and obtained a cumulative GPA of 3.5 or better in these courses. The written permission of an adviser is required for this change of program. The missing MATH 249 Honours Complex Variables. and PHYS 260 Modern Physics and Relativity. from the U1 Honours year should be taken in U2.

Physics: Biological Physics Major (B.Sc.) (82 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 82

Program Description

This program may be completed in 81 or 82 credits.

The B.Sc.; Major in Physics; Biological Physics program keeps a strong core of foundational physics and specializes in biology, mathematics, physiology, computer science, and chemistry. Complementary courses provide background in molecular and cell biology, computer science, and organic chemistry, whereas introductory and advanced biophysics courses offered by the Physics Department as integrative courses

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

Bio-Physical Science Core (27 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4	PHYS 328	Electronics.	3
BIOL 395	Quantitative Biology Seminar.	1	PHYS 331	Topics in Classical Mechanics.	3
CHEM 212	Introductory Organic Chemistry 1. ¹	4	3 credits selected from:		
MATH 222	Calculus 3. ¹	3	Expand allContract all		
MATH 223	Linear Algebra.	3	Course	Title	Credits
MATH 315	Ordinary Differential Equations.	3	PHYS 339	Measurements Laboratory in General Physics.	3
MATH 323	Probability.	3	PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 319	Introduction to Biophysics.	3	PHYS 469	Advanced Physics Laboratory 2.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3	3 credits selected from:		

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1. or MATH 222 Calculus 3. can make up the credits with complementary 3 or 4 credits courses in consultation with the program adviser.

Biology and Mathematics (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
MATH 314	Advanced Calculus.	3

Physics (30 credits)

Expand allContract all

Course	Title	Credits
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 342	Majors Electromagnetic Waves.	3
PHYS 346	Majors Quantum Physics.	3
PHYS 449	Majors Research Project.	3
PHYS 519	Advanced Biophysics.	3

Complementary Courses

(18-19 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 250	Introduction to Computer Science.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 469	Advanced Physics Laboratory 2.	3
3 credits selected from:		
Expand allContract all		
Course	Title	Credits
CHEM 514	Biophysical Chemistry.	3
MATH 437	Mathematical Methods in Biology.	3
PHGY 425	Analyzing Physiological Systems.	3
PHYS 432	Physics of Fluids.	3
PHYS 434	Optics.	3
PHYS 447	Applications of Quantum Mechanics.	3

6 to 7 credits selected from:

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 316	Biomembranes and Organelles.	3
BIOL 551	Principles of Cellular Control.	3

Physics and Geophysics Major (B.Sc.) (69 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 69

Program Description

The joint program in Physics and Geophysics focuses on geophysics and related fields.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).

- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

One of:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3

MATH 133 Linear Algebra and Geometry. and either MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B..

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

Required Courses (57 Credits)

Expand allContract all

Course	Title	Credits
EPSC 231	Field School 1.	3
EPSC 240	Geology in the Field.	3
EPSC 303	Structural Geology.	3
EPSC 320	Elementary Earth Physics.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3

PHYS 241	Signal Processing.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 331	Topics in Classical Mechanics.	3
PHYS 333	Thermal and Statistical Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 342	Majors Electromagnetic Waves.	3
PHYS 346	Majors Quantum Physics.	3
PHYS 432	Physics of Fluids.	3

Complementary Courses (12 Credits)

6-12 credits from the following:

Course	Title	Credits
EPSC 350	Tectonics.	3
EPSC 425	Sediments to Sequences.	3
EPSC 482	Research in Earth and Planetary Sciences.	3
EPSC 510	Climate and Geodynamics	3
EPSC 520	Earthquake Physics and Geology.	3
EPSC 549	Hydrogeology.	3
MATH 319	Partial Differential Equations .	3
PHYS 320	Introductory Astrophysics.	3
PHYS 321	Data Science and Observational Astrophysics.	3
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 404	Climate Physics.	3

0-6 credits from the following:

Course	Title	Credits
EPSC 482	Research in Earth and Planetary Sciences.	3
PHYS 449	Majors Research Project.	3
PHYS 459D1	Research Thesis.	3
PHYS 459D2	Research Thesis.	3
PHYS 512	Computational Physics with Applications.	3
PHYS 521	Astrophysics.	3

Note: If chosen, PHYS 459D1 Research Thesis. and PHYS 459D2 Research Thesis. must be taken together.

Physics and Computer Science Major (B.Sc.) (66 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

The Major Physics and Computer Science is designed to give motivated students the opportunity to combine the two fields in a way that will distinguish them from the graduates of either field by itself. The two disciplines complement each other, with physics providing an analytic problem-solving outlook and basic understanding of nature, while computer science enhances the ability to make practical and marketable applications, in addition to having its own theoretical interest. Graduates of this program may be able to present themselves as being more immediately useful than a pure physics major, but with more breadth than just a programmer. They will be able to demonstrate their combined expertise in the Special Project course which is the centrepiece of the final year of the program.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

One of:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3

MATH 133 Linear Algebra and Geometry, and either MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B..

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

U1 Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
COMP 250	Introduction to Computer Science.	3
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra.	3
MATH 240	Discrete Structures.	3
PHYS 230	Dynamics of Simple Systems.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3

U2 Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 251	Algorithms and Data Structures.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 350	Numerical Computing.	3
MATH 314	Advanced Calculus.	3
MATH 315	Ordinary Differential Equations.	3
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3

U3 Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
COMP 360	Algorithm Design.	3
MATH 323	Probability.	3
PHYS 331	Topics in Classical Mechanics.	3
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 346	Majors Quantum Physics.	3
PHYS 489	Special Project.	3

Physics Honours (B.Sc.) (81 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 81

Program Description

The B.Sc.; Honours in Physics provides a broad view of physics from classical to modern topics as well as a choice of specialized high level courses relevant for contemporary research. The students have the opportunity to participate in research.

This is a demanding program. This program may be completed in 78 or 81 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
MATH 133	Linear Algebra and Geometry.	3
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

7-8 credits from:

Expand allContract all

Course	Title	Credits
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

Note: Either MATH 140 Calculus 1. and MATH 141 Calculus 2. or MATH 150 Calculus A. and MATH 151 Calculus B..

Required Courses (51 credits)

Expand allContract all

Course	Title	Credits
MATH 247	Honours Applied Linear Algebra.	3
MATH 248	Honours Vector Calculus.	3

MATH 249	Honours Complex Variables.	3
MATH 325	Honours Ordinary Differential Equations.	3
MATH 475	Honours Partial Differential Equations.	3
PHYS 241	Signal Processing.	3
PHYS 251	Honours Classical Mechanics 1.	3
PHYS 253	Thermal Physics.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 260	Modern Physics and Relativity.	3
PHYS 350	Honours Electricity and Magnetism.	3
PHYS 351	Honours Classical Mechanics 2.	3
PHYS 352	Honours Electromagnetic Waves.	3
PHYS 357	Honours Quantum Physics 1.	3
PHYS 362	Statistical Mechanics.	3
PHYS 457	Honours Quantum Physics 2.	3

Complementary Courses (27-30 credits)

0-3 credits from:

Expand allContract all		Credits
Course	Title	Credits
MATH 222	Calculus 3. ¹	3

¹ Students who did not complete an equivalent of MATH 222 Calculus 3. on entering the program must take this course in the first semester.

3 credits from:

Expand allContract all		Credits
Course	Title	Credits
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 469	Advanced Physics Laboratory 2.	3

6 credits selected from:

Note: If chosen, PHYS 459D1 Research Thesis. and PHYS 459D2 Research Thesis. are taken together.

Expand allContract all		Credits
Course	Title	Credits
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 459D1	Research Thesis.	3
PHYS 459D2	Research Thesis.	3
PHYS 469	Advanced Physics Laboratory 2.	3
PHYS 479	Physics Research Project.	3

Note: Students cannot take both PHYS 359 Advanced Physics Laboratory 1. and PHYS 469 Advanced Physics Laboratory 2. to meet this requirement as one of them was taken to meet the previous requirement above.

18 credits selected from the list below (students may substitute one or more courses with any 3-credit course approved by the Department of Physics):

Expand allContract all		
Course	Title	Credits
PHYS 404	Climate Physics.	3
PHYS 432	Physics of Fluids.	3
PHYS 434	Optics.	3
PHYS 479	Physics Research Project.	3
PHYS 512	Computational Physics with Applications.	3
PHYS 514	General Relativity.	3
PHYS 519	Advanced Biophysics.	3
PHYS 521	Astrophysics.	3
PHYS 534	Nanoscience and Nanotechnology.	3
PHYS 551	Quantum Theory.	3
PHYS 557	Nuclear Physics.	3
PHYS 558	Solid State Physics.	3
PHYS 559	Advanced Statistical Mechanics.	3
PHYS 562	Electromagnetic Theory.	3
PHYS 567	Particle Physics.	3

Physics: Biological Physics Honours (B.Sc.) (82 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 82

Program Description

The B.Sc.; Honours in Physics; Biological Physics program contains a strong core of foundational physics and specializes in biology, mathematics, physiology, computer science, and chemistry. This Honours program offers a more rigorous preparation, with additional research experience, in biophysics. The program includes a research project within a biophysics lab in the department that is completed in the final year. This program may be completed in 81 or 82 credits

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

Bio-Physical Sciences Core (24 credits)

Expand allContract all		
Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 395	Quantitative Biology Seminar.	1
CHEM 212	Introductory Organic Chemistry 1.	4
MATH 247	Honours Applied Linear Algebra.	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
PHYS 319	Introduction to Biophysics.	3
PHYS 329	Statistical Physics with Biophysical Applications.	3

¹ Students who have taken the equivalent of CHEM 212 Introductory Organic Chemistry 1. can make up the credits with complementary 3 or 4 credit courses in consultation with the program adviser.

Biology and Mathematics (6 credits)

Expand allContract all		
Course	Title	Credits
BIOL 202	Basic Genetics.	3
MATH 248	Honours Vector Calculus.	3

Physics (33 credits)

Expand allContract all		
Course	Title	Credits
PHYS 241	Signal Processing.	3
PHYS 251	Honours Classical Mechanics 1.	3
PHYS 253	Thermal Physics.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 346	Majors Quantum Physics.	3
PHYS 350	Honours Electricity and Magnetism.	3
PHYS 352	Honours Electromagnetic Waves.	3
PHYS 459D1	Research Thesis.	3
PHYS 459D2	Research Thesis.	3
PHYS 519	Advanced Biophysics.	3

Complementary Courses (18-19 credits)

3 credits selected from:

Expand allContract all		
Course	Title	Credits
COMP 202	Foundations of Programming.	3
COMP 250	Introduction to Computer Science.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
PHYS 328	Electronics.	3
PHYS 351	Honours Classical Mechanics 2.	3

3 credits selected from:

Expand all	Contract all	
Course	Title	Credits
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 469	Advanced Physics Laboratory 2.	3

3 credits selected from:

Expand all	Contract all	
Course	Title	Credits
CHEM 514	Biophysical Chemistry.	3
MATH 437	Mathematical Methods in Biology.	3
PHGY 425	Analyzing Physiological Systems.	3
PHYS 432	Physics of Fluids.	3
PHYS 434	Optics.	3
PHYS 447	Applications of Quantum Mechanics.	3

6 to 7 credits selected from:

Expand all	Contract all	
Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 303	Developmental Biology.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 316	Biomembranes and Organelles.	3
BIOL 551	Principles of Cellular Control.	3

Physics and Chemistry Honours (B.Sc.) (80 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 80

Program Description

This program provides a strong basis in both chemistry and physics. It contains a core of chemistry courses and a mix of honours-level courses in physics and mathematics.

To graduate with an Honours degree, a student must have, at time of graduation, a CGPA of at least 3.0 in the required and complementary courses of the program, as well as an overall CGPA of at least 3.0.

This is a specialized and demanding program. The student will have two advisers, one from Chemistry and the other from Physics. This program may be completed in 80 or 83 credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand all

Contract all		
Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

3 credits from:

Contract all		
Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3
MATH 133	Linear Algebra and Geometry.	3

7-8 credits from:

Contract all		
Course	Title	Credits
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

Note: Either MATH 140 Calculus 1. and MATH 141 Calculus 2. or MATH 150 Calculus A. and MATH 151 Calculus B..

Required Courses (68 credits)

Expand all

Contract all		
Course	Title	Credits
CHEM 212	Introductory Organic Chemistry 1.	4
CHEM 213	Introductory Physical Chemistry 1: Thermodynamics.	3

CHEM 273	Introductory Physical Chemistry 2: Kinetics and Methods.	3	Note: PHYS 459D1 Research Thesis. and PHYS 459D2 Research Thesis. are taken together.
CHEM 281	Inorganic Chemistry 1.	3	Expand allContract all
CHEM 355	Applications of Quantum Chemistry.	3	Course Title Credits
CHEM 365	Statistical Thermodynamics.	2	CHEM 480D1 Undergraduate Research Project 2. 1.5
CHEM 493	Advanced Physical Chemistry Laboratory.	2	CHEM 480D2 Undergraduate Research Project 2. 1.5
CHEM 556	Advanced Quantum Mechanics.	3	CHEM 505 Computer Modeling of Molecules and Materials. 3
CHEM 574	Introductory Polymer Chemistry.	3	CHEM 531 Chemistry of Inorganic Materials. 3
COMP 208	Computer Programming for Physical Sciences and Engineering .	3	CHEM 575 Chemical Kinetics. 3
			CHEM 585 Colloid Chemistry. 3
MATH 247	Honours Applied Linear Algebra.	3	PHYS 351 Honours Classical Mechanics 2. 3
MATH 248	Honours Vector Calculus.	3	PHYS 359 Advanced Physics Laboratory 1. 3
MATH 249	Honours Complex Variables.	3	PHYS 404 Climate Physics. 3
MATH 325	Honours Ordinary Differential Equations.	3	PHYS 434 Optics. 3
PHYS 241	Signal Processing.	3	PHYS 459D1 Research Thesis. 3
PHYS 251	Honours Classical Mechanics 1.	3	PHYS 459D2 Research Thesis. 3
PHYS 257	Experimental Methods 1.	3	PHYS 469 Advanced Physics Laboratory 2. 3
PHYS 258	Experimental Methods 2.	3	PHYS 479 Physics Research Project. 3
PHYS 350	Honours Electricity and Magnetism.	3	PHYS 512 Computational Physics with Applications. 3
PHYS 352	Honours Electromagnetic Waves.	3	PHYS 562 Electromagnetic Theory. 3
PHYS 357	Honours Quantum Physics 1.	3	
PHYS 457	Honours Quantum Physics 2.	3	
PHYS 558	Solid State Physics.	3	

Complementary Courses (12-15 credits)

(with at least 3 credits in Chemistry and 3 credits in Physics)

0-3 credits from:

Expand allContract all
Course Title
MATH 222 Calculus 3. ¹

¹ Note: A student who has not taken MATH 222 Calculus 3. (or equivalent) prior to entering the program must take it in their first semester, increasing the program credits from 80 to 83. The student must then take MATH 314 Advanced Calculus. in their second semester instead of MATH 248 Honours Vector Calculus., if scheduling requires it.

3 credits selected from:

Expand allContract all
Course Title
CHEM 593 Statistical Mechanics and Machine Learning for Chemistry.

PHYS 559 Advanced Statistical Mechanics.

3

9 credits selected from the list below:

Physics and Computer Science Honours (B.Sc.) (81 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 81

Program Description

This program provides essential background in physics and computer science at a level sufficient to pursue courses at the 400- and 500-level in either discipline. The program is intended to be flexible to allow students to take either more physics or more computer science courses at the advanced level.

Students entering this Honours program should have high standing in mathematics, physics, and computer science.

To graduate with an Honours degree, a student must have, at time of graduation, a CGPA of at least 3.0 in the required and complementary courses of the program, as well as an overall CGPA of at least 3.0.

The program may completed in 78 or 81 credits.

Note: COMP 202 Foundations of Programming.—or an equivalent introduction to computer programming course— is a program prerequisite. UO students may take COMP 202 Foundations of Programming. as a Freshman Science course; new U1 students should take it as an elective in their first semester.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (63 credits)

Expand allContract all

Course	Title	Credits
COMP 206	Introduction to Software Systems.	3
COMP 250	Introduction to Computer Science.	3
COMP 252	Honours Algorithms and Data Structures.	3
COMP 273	Introduction to Computer Systems.	3
COMP 302	Programming Languages and Paradigms.	3
COMP 350	Numerical Computing.	3
MATH 240	Discrete Structures.	3
MATH 247	Honours Applied Linear Algebra. ¹	3
MATH 248	Honours Vector Calculus.	3
MATH 249	Honours Complex Variables. ¹	3
MATH 314	Advanced Calculus.	3
MATH 325	Honours Ordinary Differential Equations.	3
PHYS 241	Signal Processing.	3
PHYS 251	Honours Classical Mechanics 1.	3
PHYS 253	Thermal Physics.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 350	Honours Electricity and Magnetism.	3
PHYS 352	Honours Electromagnetic Waves.	3
PHYS 357	Honours Quantum Physics 1.	3
PHYS 362	Statistical Mechanics.	3
PHYS 457	Honours Quantum Physics 2.	3

¹ Note: The student must then take MATH 314 Advanced Calculus. in their second semester instead of MATH 248 Honours Vector Calculus., if scheduling requires it.

Complementary Courses (15 credits)

At least 6 of the 15 complementary credits must come from a course at the 400- or 500-level (excluding COMP 400 Project in Computer Science and PHYS 479 Physics Research Project.), and of these at least 3 must be from a COMP course.

0-3 credits from:

Expand allContract all

Course	Title	Credits
MATH 222	Calculus 3. ¹	3

¹ Note: A student who has not taken MATH 222 Calculus 3. (or equivalent) prior to entering the program must take it in their first semester, increasing the program credits from 78 to 81.

3-4 credits from:

Expand allContract all

Course	Title	Credits
COMP 400	Project in Computer Science	4
PHYS 479	Physics Research Project.	3

6 or 7 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 303	Software Design.	3
COMP 310	Operating Systems.	3
COMP 330	Theory of Computation.	3
COMP 362	Honours Algorithm Design.	3

Any COMP course at the 400- or 500-level (excluding COMP 400 Project in Computer Science) (3 or 4 credits)

3-4 credits from:

Expand allContract all

Course	Title	Credits
MATH 323	Probability.	3
MATH 340	Discrete Mathematics.	3
PHYS 351	Honours Classical Mechanics 2.	3
PHYS 359	Advanced Physics Laboratory 1.	3
PHYS 404	Climate Physics.	3
PHYS 432	Physics of Fluids.	3
PHYS 434	Optics.	3
PHYS 469	Advanced Physics Laboratory 2.	3

Any number of PHYS courses at the 500 level (3 credits each)

Any number of COMP courses at the 400 or 500-level (excluding COMP 400) (3 or 4 credits each)

Mathematics and Physics Honours (B.Sc.) (81 credits)

Offered by: Physics (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 81

Program Description

This is a specialized and demanding program intended for students who wish to develop a strong basis in both Mathematics and Physics in

preparation for graduate work and a professional or academic career. Although the program is optimized for theoretical physics, it is broad enough and strong enough to prepare students for further study in either experimental physics or mathematics.

The minimum requirement for entry into the program is completion with high standing of the usual CEGEP courses in physics and in mathematics, or the Physics Program Prerequisites as explained below. In addition, a student who has not completed the equivalent of MATH 222 Calculus 3. must take it in the first term without receiving credit toward the 81 credits required in the Honours program.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (unless the student improves the grade to a C or higher through a supplemental exam or by retaking the course), may not register in the Honours program the following year, or graduate with the Honours degree, except with the permission of both departments. The student will have two advisers, one from Mathematics and the other from Physics.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

Expand allContract all

Course	Title	Credits
CHEM 110	General Chemistry 1.	4
CHEM 120	General Chemistry 2.	4
PHYS 131	Mechanics and Waves.	4
PHYS 142	Electromagnetism and Optics.	4

One of:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3

MATH 133 Linear Algebra and Geometry. and either MATH 140 Calculus 1./MATH 141 Calculus 2. or MATH 150 Calculus A./MATH 151 Calculus B..

Expand allContract all

Course	Title	Credits
MATH 133	Linear Algebra and Geometry.	3
MATH 140	Calculus 1.	3
MATH 141	Calculus 2.	4
MATH 150	Calculus A.	4
MATH 151	Calculus B.	4

U1 Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
MATH 235	Algebra 1.	3
MATH 248	Honours Vector Calculus.	3
MATH 249	Honours Complex Variables.	3
MATH 325	Honours Ordinary Differential Equations.	3
PHYS 241	Signal Processing.	3
PHYS 251	Honours Classical Mechanics 1.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 260	Modern Physics and Relativity.	3

U2 Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
MATH 255	Honours Analysis 2.	3
MATH 475	Honours Partial Differential Equations.	3
PHYS 253	Thermal Physics.	3
PHYS 350	Honours Electricity and Magnetism.	3
PHYS 351	Honours Classical Mechanics 2.	3
PHYS 357	Honours Quantum Physics 1.	3
PHYS 362	Statistical Mechanics.	3
PHYS 457	Honours Quantum Physics 2.	3

U3 Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
MATH 454	Honours Analysis 3.	3
MATH 458	Honours Differential Geometry.	3
PHYS 352	Honours Electromagnetic Waves.	3
PHYS 359	Advanced Physics Laboratory 1.	3

Complementary Courses (18 credits)

U1 Complementary Course (3 credits)

Expand allContract all

Course	Title	Credits
MATH 247	Honours Applied Linear Algebra.	3
MATH 251	Honours Algebra 2.	3

U2 Complementary Courses (3 credits)

Expand allContract all

Course	Title	Credits
MATH 242	Analysis 1.	3
MATH 254	Honours Analysis 1. ¹	3

¹ It is strongly recommended that students take MATH 254 Honours Analysis 1..

U3 Complementary Courses (12 credits)

12 credits are selected as follows:

3 credits from:

Expand allContract all

Course	Title	Credits
MATH 455	Honours Analysis 4.	3
MATH 456	Honours Algebra 3.	3

6 credits selected from:

Expand allContract all

Course	Title	Credits
PHYS 404	Climate Physics.	3
PHYS 432	Physics of Fluids.	3
PHYS 459D1	Research Thesis. ¹	3
PHYS 459D2	Research Thesis. ¹	3
PHYS 479	Physics Research Project.	3
PHYS 512	Computational Physics with Applications.	3
PHYS 514	General Relativity.	3
PHYS 519	Advanced Biophysics.	3
PHYS 521	Astrophysics.	3
PHYS 551	Quantum Theory.	3
PHYS 557	Nuclear Physics.	3
PHYS 558	Solid State Physics.	3
PHYS 559	Advanced Statistical Mechanics.	3
PHYS 562	Electromagnetic Theory.	3
PHYS 567	Particle Physics.	3

¹ Note: PHYS 459D1 Research Thesis. and PHYS 459D2 Research Thesis. are taken together.

3 credits in Honours Mathematics.

Physiology Liberal Program - Core Science Component (B.Sc.) (48 credits)

Offered by: Physiology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 48

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 212	Introductory Organic Chemistry 1. ¹	4
CHEM 222	Introductory Organic Chemistry 2. ¹	4
PHGY 200	Cutting-Edge Research in Physiology.	1
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3

¹ Students who have taken CHEM 212 Introductory Organic Chemistry 1. and/or CHEM 222 Introductory Organic Chemistry 2. in CEGEP are exempt and must replace these credits with elective credits.

Complementary Courses (15 credits)

3 credits from:

Expand allContract all

Course	Title	Credits	PHGY 525	Cortical Plasticity.	3
BIOC 212	Molecular Mechanisms of Cell Function.	3	PHGY 531	Topics in Applied Immunology.	3
BIOL 201	Cell Biology and Metabolism.	3	PHGY 550	Molecular Physiology of Bone.	3
			PHGY 556	Topics in Systems Neuroscience.	3
			PHGY 560	Light Microscopy-Life Science.	3
			PSYC 470	Memory and Brain.	3
			PSYT 500	Advances: Neurobiology of Mental Disorders.	3

3 credits from:

Expand allContract all

Course	Title	Credits	PHGY 311	Channels, Synapses and Hormones.	3
PHGY 314	Integrative Neuroscience.	3			

3 credits from:

Expand allContract all

Course	Title	Credits	BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3			
COMP 204	Computer Programming for Life Sciences.	3			
COMP 250	Introduction to Computer Science.	3			
PSYC 305	Statistics for Experimental Design.	3			

Upper-Level Physiology (ULP) Courses

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

Expand allContract all

Course	Title	Credits	BIOL 532	Developmental Neurobiology Seminar.	3
BMDE 505	Cell and Tissue Engineering.	3			
BMDE 519	Biomedical Signals and Systems.	3			
EXMD 502	Advanced Endocrinology 1.	3			
EXMD 503	Advanced Endocrinology 02.	3			
EXMD 506	Advanced Applied Cardiovascular Physiology.	3			
EXMD 507	Advanced Applied Respiratory Physiology.	3			
EXMD 508	Advanced Topics in Respiration.	3			
MIMM 414	Advanced Immunology.	3			
MIMM 509	Inflammatory Processes.	3			
PHGY 425	Analyzing Physiological Systems.	3			
PHGY 451	Advanced Neurophysiology.	3			
PHGY 459D1	Physiology Seminar. ¹	3			
PHGY 459D2	Physiology Seminar. ¹	3			
PHGY 461D1	Experimental Physiology. ²	4.5			
PHGY 461D2	Experimental Physiology. ²	4.5			
PHGY 488	Stem Cell Biology.	3			
PHGY 502	Exercise Physiology.	3			
PHGY 513	Translational Immunology.	3			
PHGY 515	Blood-Brain Barrier in Health and Disease.	3			
PHGY 516	Physiology of Blood .	3			
PHGY 518	Artificial Cells.	3			
PHGY 524	Chronobiology.	3			

Physiology Major (B.Sc.) (66 credits)

Offered by: Physiology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 66

Program Description

(65-66 credits)

The Major program includes, in addition to some intensive studies in Physiology, a strong core content of related biomedical sciences. Admission to the Major program will be in U2, upon completion of the U1 required courses, and in consultation with the student's adviser.

If not previously taken, CHEM 212 Introductory Organic Chemistry 1. must be completed in addition to the 64-65 program credits.

Students may complete this program with a minimum of 64 credits or a maximum of 65 credits depending on their choice of complementary courses.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

U1 Required Courses (18 credits)

Expand allContract all

Course	Title	Credits	Expand allContract all
BIOL 200	Molecular Biology.	3	
BIOL 202	Basic Genetics.	3	
CHEM 222	Introductory Organic Chemistry 2.	4	
PHGY 209	Mammalian Physiology 1.	3	
PHGY 210	Mammalian Physiology 2.	3	
PHGY 212	Introductory Physiology Laboratory 1.	1	9 credits selected from the Upper-Level Physiology (ULP) course list as follows:
PHGY 213	Introductory Physiology Laboratory 2.	1	

U2 and U3 Required Courses (19 credits)

Expand allContract all

Course	Title	Credits	Expand allContract all
BIOC 311	Metabolic Biochemistry.	3	
BIOL 301	Cell and Molecular Laboratory.	4	
PHGY 311	Channels, Synapses and Hormones.	3	
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3	
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3	
PHGY 314	Integrative Neuroscience.	3	

Complementary Courses (28 credits)

12-13 credits selected as follows:

3 credits, one of:

Course	Title	Credits	Expand allContract all
BIOC 212	Molecular Mechanisms of Cell Function.	3	
BIOL 201	Cell Biology and Metabolism.	3	

3 credits, one of:

Course	Title	Credits	Expand allContract all
BIOL 309	Mathematical Models in Biology.	3	
BIOL 373	Biometry.	3	
COMP 204	Computer Programming for Life Sciences.	3	
COMP 250	Introduction to Computer Science.	3	
PSYC 305	Statistics for Experimental Design.	3	

3 credits, one of:

Course	Title	Credits	Expand allContract all
BIOC 312	Biochemistry of Macromolecules.	3	
CHEM 203	Survey of Physical Chemistry.	3	6 credits selected from the Upper-Level Science (ULS)
CHEM 204	Physical Chemistry/Biological Sciences 1.	3	Note: For Chemistry, Neurology, and Neurosurgery: select from all courses 300 level and above and the ULS courses listed below.

3-4 credits, one of:

¹ the 6-credit course equals 3 credits of ULP and 6 credits of electives.
² the 9-credit course equals 3 credits of ULP and 6 credits of electives.

Note: For Chemistry, Neurology, and Neurosurgery: select from all courses 300 level and above and the ULS courses listed below.

For Biochemistry, Computer Science, Microbiology and Immunology, Mathematics, Physics, and Pathology: select from all courses 300 level and above.

For Anatomy, Biology, Experimental Medicine, Pharmacology, and Psychology: select from the ULS courses listed below:

Expand allContract all

Course	Title	Credits
ANAT 321	Circuitry of the Human Brain.	3
ANAT 322	Neuroendocrinology.	3
ANAT 365	Cellular Trafficking.	3
ANAT 381	Experimental Embryology.	3
ANAT 416	Development, Disease and Regeneration.	3
ANAT 458	Membranes and Cellular Signaling. ¹	3
ANAT 541	Cell and Molecular Biology of Aging.	3
ANAT 542	Transmission Electron Microscopy of Biological Samples.	3
ANAT 565	Diseases-Membrane Trafficking.	3
BIOC 458	Membranes and Cellular Signaling. ¹	3
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 309	Mathematical Models in Biology.	3
BIOL 313	Eukaryotic Cell Biology.	3
BIOL 314	Molecular Biology of Cancer.	3
BIOL 324	Ecological Genetics.	3
BIOL 373	Biometry.	3
BIOL 389	Laboratory in Neurobiology.	3
BIOL 416	Genetics of Mammalian Development.	3
BIOL 468	Independent Research Project 3.	6
BIOL 518	Advanced Topics in Cell Biology.	3
BIOL 520	Gene Activity in Development.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 532	Developmental Neurobiology Seminar.	3
BIOL 544	Genetic Basis of Life Span.	3
BIOL 546	Genetics of Model Systems.	3
BIOL 551	Principles of Cellular Control.	3
BIOL 588	Advances in Molecular/Cellular Neurobiology.	3
CHEM 214	Physical Chemistry/Biological Sciences 2.	3
EXMD 401	Physiology and Biochemistry Endocrine Systems.	3
EXMD 502	Advanced Endocrinology 1.	3
EXMD 503	Advanced Endocrinology 02.	3
EXMD 504	Biology of Cancer.	3
EXMD 506	Advanced Applied Cardiovascular Physiology.	3
EXMD 507	Advanced Applied Respiratory Physiology.	3
EXMD 508	Advanced Topics in Respiration.	3
EXMD 510	Bioanalytical Separation Methods.	3
HGEN 575	Human Biochemical Genetics.	3
NEUR 310	Cellular Neurobiology.	3
PHAR 503	Drug Discovery and Development 1.	3
PHAR 504	Drug Discovery and Development 2.	3
PHAR 562	Neuropharmacology.	3
PHAR 563	Endocrine Pharmacology.	3
PPHS 501	Population Health and Epidemiology.	3
PSYC 302	Pain.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 342	Hormones and Behaviour.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 427	Sensorimotor Neuroscience.	3
PSYC 470	Memory and Brain.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

¹ Students may take ANAT 458 Membranes and Cellular Signaling. or BIOC 458 Membranes and Cellular Signaling. but not both.

Note: Students may opt to replace 3 credits of the 6 credits of Upper Level Science with 3 credits selected from the following list:

Course	Title	Credits
PHIL 341	Philosophy of Science 1.	3
PHIL 343	Biomedical Ethics.	3
REDM 410	Writing Research Articles.	3

Physiology and Mathematics Major (B.Sc.) (79 credits)

Offered by: Physiology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 79

Program Description

The physiology and mathematics major program is an interdisciplinary program that integrates the world of physiology with mathematics. It explores the relationship between Physiological systems and the quantitative principles underpinning them. Physiology covers topics from cellular function to organ systems and behaviour. Mathematics delves into the basis of pure and applied mathematics with a focus on developing analytical, computational and problem-solving skills with an emphasis on nonlinear dynamics.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (70 credits)

Bio-Physical Sciences Core

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 395	Quantitative Biology Seminar.	1
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra. ¹	3
MATH 247	Honours Applied Linear Algebra. ¹	3
MATH 315	Ordinary Differential Equations.	3
MATH 323	Probability.	3
MATH 325	Honours Ordinary Differential Equations. ²	3

¹ Students may take either MATH 223 Linear Algebra. or MATH 247 Honours Applied Linear Algebra..

² Students may take either MATH 315 Ordinary Differential Equations. or MATH 325 Honours Ordinary Differential Equations..

Physiology and Mathematics Core

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BMDE 519	Biomedical Signals and Systems.	3
MATH 242	Analysis 1.	3
MATH 243	Analysis 2.	3
MATH 248	Honours Vector Calculus. ¹	3
MATH 314	Advanced Calculus.	3
MATH 317	Numerical Analysis.	3
MATH 319	Partial Differential Equations .	3
MATH 324	Statistics.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 437	Mathematical Methods in Biology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3

PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
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PHGY 461D1	Experimental Physiology.	4.5
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PHGY 461D2	Experimental Physiology.	4.5
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¹ Students may take either MATH 248 Honours Vector Calculus. or MATH 314 Advanced Calculus..

Complementary Courses (9 credits)

3 credits from:

Course	Title	Credits
COMP 204	Computer Programming for Life Sciences.	3
COMP 250	Introduction to Computer Science.	3

3 credits from:

Course	Title	Credits
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 314	Integrative Neuroscience.	3

3 credits from:

Course	Title	Credits
PHYS 519	Advanced Biophysics.	3

Physiology and Physics Major (B.Sc.) (82 credits)

Offered by: Physiology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 82

Program Description

This program provides a firm foundation in physics, mathematics, and physiology. It is appropriate for students interested in applying methods of the physical sciences to problems in physiology and allied biological sciences.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are

met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (76 credits)

Bio-Physical Sciences Core

Expand allContract all

Course	Title	Credits
BIOL 219	Introduction to Physical Molecular and Cell Biology.	4
BIOL 395	Quantitative Biology Seminar.	1
MATH 222	Calculus 3.	3
MATH 223	Linear Algebra. ¹	3
MATH 247	Honours Applied Linear Algebra. ¹	3
MATH 315	Ordinary Differential Equations. ²	3
MATH 325	Honours Ordinary Differential Equations. ²	3
PHYS 329	Statistical Physics with Biophysical Applications.	3

¹ Students may take either MATH 223 Linear Algebra. or MATH 247 Honours Applied Linear Algebra..

² Students may take either MATH 315 Ordinary Differential Equations. or MATH 325 Honours Ordinary Differential Equations..

Physiology and Physics Core

Expand allContract all

Course	Title	Credits
BMDE 519	Biomedical Signals and Systems. ¹	3
MATH 248	Honours Vector Calculus. ¹	3
MATH 314	Advanced Calculus.	3
MATH 326	Nonlinear Dynamics and Chaos.	3
MATH 437	Mathematical Methods in Biology.	3
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 461D1	Experimental Physiology.	4.5
PHGY 461D2	Experimental Physiology.	4.5
PHYS 230	Dynamics of Simple Systems.	3
PHYS 232	Heat and Waves.	3
PHYS 241	Signal Processing.	3
PHYS 257	Experimental Methods 1.	3
PHYS 258	Experimental Methods 2.	3
PHYS 339	Measurements Laboratory in General Physics.	3
PHYS 340	Majors Electricity and Magnetism.	3
PHYS 346	Majors Quantum Physics.	3

¹ Students may take either MATH 248 Honours Vector Calculus. or MATH 314 Advanced Calculus..

Complementary Courses (6 credits)

3 credits, one of:

Expand allContract all

Course	Title	Credits
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 314	Integrative Neuroscience.	3

3 credits:

Expand allContract all

Course	Title	Credits
PHYS 519	Advanced Biophysics.	3

Physiology Honours (B.Sc.) (75 credits)

Offered by: Physiology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 75

Program Description

All admissions to the Honours program will be in U2, and the student must have a U1 GPA of 3.30, with no less than a B in PHGY 209 Mammalian Physiology 1. and PHGY 210 Mammalian Physiology 2.. Admission to U3 requires a U2 CGPA of 3.20 with no less than a B in U2 Physiology courses. Decisions for admission to U3 will be heavily influenced by student standing in U2 courses.

The Department reserves the right to restrict the number of entering students in the Honours program. Students who do not maintain Honours standing may transfer their registration to the Major program in Physiology.

The deadline to apply to the Honours program is August 23, 2019. Application forms are available online at physiology.med@mcgill.ca or a hard copy can be picked up at McIntyre 1021. Please contact Sonia Viselli, Student Affairs Officer (sonia.viselli@mcgill.ca; 514-398-3689) for more information. An email will be sent to acknowledge receipt of your application.

Graduation: To graduate from the Honours Physiology program, the student will have a CGPA of 3.20 with a mark no less than a B in all Physiology courses.

If not previously taken, CHEM 212 Introductory Organic Chemistry 1. must be completed in addition to the 75 program credits.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
ANAT 261	Introduction to Dynamic Histology.	4
BIOC 311	Metabolic Biochemistry.	3
BIOL 200	Molecular Biology.	3
BIOL 202	Basic Genetics.	3
BIOL 301	Cell and Molecular Laboratory.	4
CHEM 222	Introductory Organic Chemistry 2.	4
PHGY 209	Mammalian Physiology 1.	3
PHGY 210	Mammalian Physiology 2.	3
PHGY 212	Introductory Physiology Laboratory 1.	1
PHGY 213	Introductory Physiology Laboratory 2.	1
PHGY 311	Channels, Synapses and Hormones.	3
PHGY 312	Respiratory, Renal, and Cardiovascular Physiology.	3
PHGY 313	Blood, Gastrointestinal, and Immune Systems Physiology.	3
PHGY 314	Integrative Neuroscience.	3
PHGY 351	Research Techniques: Physiology.	3
PHGY 359D1	Tutorial in Physiology.	0.5
PHGY 359D2	Tutorial in Physiology.	0.5
PHGY 459D1	Physiology Seminar.	3
PHGY 459D2	Physiology Seminar.	3
PHGY 461D1	Experimental Physiology.	4.5
PHGY 461D2	Experimental Physiology.	4.5

Complementary Courses (15 credits)

9 credits selected as follows:

3 credits, one of:

Expand allContract all

Course	Title	Credits
BIOC 212	Molecular Mechanisms of Cell Function.	3
BIOL 201	Cell Biology and Metabolism.	3

3 credits, one of:

Expand allContract all

Course	Title	Credits
BIOL 309	Mathematical Models in Biology.	3
BIOL 373	Biometry.	3
COMP 204	Computer Programming for Life Sciences.	3
COMP 250	Introduction to Computer Science.	3
PSYC 305	Statistics for Experimental Design.	3

3 credits, one of:

Expand allContract all

Course	Title	Credits
BIOC 312	Biochemistry of Macromolecules.	3
CHEM 203	Survey of Physical Chemistry.	3
CHEM 204	Physical Chemistry/Biological Sciences 1.	3

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

Expand allContract all

Course	Title	Credits
BIOL 532	Developmental Neurobiology Seminar.	3
BMDE 519	Biomedical Signals and Systems.	3
EXMD 502	Advanced Endocrinology 1.	3
EXMD 503	Advanced Endocrinology 02.	3
EXMD 506	Advanced Applied Cardiovascular Physiology.	3
EXMD 507	Advanced Applied Respiratory Physiology.	3
EXMD 508	Advanced Topics in Respiration.	3
MIMM 414	Advanced Immunology.	3
MIMM 509	Inflammatory Processes.	3
PHGY 425	Analyzing Physiological Systems.	3
PHGY 451	Advanced Neurophysiology.	3
PHGY 488	Stem Cell Biology.	3
PHGY 502	Exercise Physiology.	3
PHGY 513	Translational Immunology.	3
PHGY 515	Blood-Brain Barrier in Health and Disease.	3
PHGY 516	Physiology of Blood .	3
PHGY 518	Artificial Cells.	3
PHGY 524	Chronobiology.	3
PHGY 525	Cortical Plasticity.	3
PHGY 531	Topics in Applied Immunology.	3
PHGY 550	Molecular Physiology of Bone.	3
PHGY 556	Topics in Systems Neuroscience.	3
PHGY 560	Light Microscopy-Life Science.	3
PSYC 470	Memory and Brain.	3
PSYT 500	Advances: Neurobiology of Mental Disorders.	3

Psychology Minor (B.Sc.) (24 credits)

Offered by: Psychology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

A minor program in Psychology is available to students registered in any B.Sc. program other than Psychology. This program is intended to complement a student's primary field of study by providing a focused introduction to specialized topics in psychology.

A separate minor concentration exists for students registered in a program in the Faculty of Arts.

The Minor program for Science students requires the completion of 24 credits in Psychology, of which no more than 6 may overlap with the primary program. All courses in the Minor program must be passed with a minimum grade of C. A prerequisite to the program is PSYC 204 Introduction to Psychological Statistics. or equivalent.

Program Prerequisite (0-3)

Students planning to enter the Minor Psychology program are required to complete PSYC 204 Introduction to Psychological Statistics. or equivalent.

¹ CEGEP students may not take PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

Complementary Courses (24 credits)

3 or 6 credits selected from the following:

Expand allContract all

Course	Title	Credits
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

18 or 21 credits selected from Psychology courses at the 300 level or above.

Psychology Liberal Program - Core Science Component (B.Sc.) (45 credits)

Offered by: Psychology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 45

Program Description

Psychology is the scientific study of the mind and behavior. The B.Sc. Liberal Core Science Component in Psychology (45 credits) provides students with a broad overview of the field of psychological science. It is less specialized than the B.Sc. Major in Psychology as students choose a selection of the core courses in psychology as well as advanced courses in specialized content areas. Students may also have the option to complete a research course(s). This program provides

students with the space to take the additional courses they may need for applying to graduate school in psychology and for completing the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs). However, students desiring a more specialized program should consider the B.Sc. Major in Psychology.

Program Requirements

The Liberal Program - Core Science Component Psychology requires the completion of 45 credits in Psychology, all of which need to be passed with a minimum grade of C. Students completing a Liberal Program with a Core Science Component Psychology must also complete at least one breadth component in a second area.

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-6 credits)

Students planning to enter the Core Science Component Psychology program should have completed an introductory course in general psychology and biology in CEGEP. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

Students who have completed General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

McGill Freshman students are recommended to complete the following courses in their UO year:

0-3 credits from:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits			
BIOL 111	Principles: Organismal Biology.	3	PSYC 403	Modern Psychology in Historical Perspective.	3
BIOL 112	Cell and Molecular Biology.	3	PSYC 406	Psychological Tests.	3

Required Course (3 credits)

Expand all Contract all

Course	Title	Credits			
PSYC 204	Introduction to Psychological Statistics. ¹	3	PSYC 410	Special Topics in Neuropsychology.	3
			PSYC 413	Cognitive Development.	3
			PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
			PSYC 427	Sensorimotor Neuroscience.	3
			PSYC 433	Cognitive Science.	3
			PSYC 439	Correlational Techniques.	3
			PSYC 443	Affective Neuroscience.	0-3
			PSYC 444	Sleep Mechanisms and Behaviour.	3
			PSYC 470	Memory and Brain.	3
			PSYC 502	Psychoneuroendocrinology.	3
			PSYC 506	Cognitive Neuroscience of Attention.	3
			PSYC 513	Human Decision-Making.	3
			PSYC 514	Neurobiology of Memory.	3
			PSYC 522	Neurochemistry and Behaviour.	3
			PSYC 526	Advances in Visual Perception.	3
			PSYC 529	Music Cognition.	3
			PSYC 531	Structural Equation Models.	3
			PSYC 537	Advanced Seminar in Psychology of Language.	3
			PSYC 538	Categorization, Communication and Consciousness.	3
			PSYC 541	Multilevel Modelling.	3
			PSYC 545	Topics in Language Acquisition.	3
			PSYC 560	Machine Learning Tools in Psychology. ¹	3
			PSYC 562	Measurement of Psychological Processes.	3

Complementary Courses (42 credits)

9 credits from:

Expand all Contract all

Course	Title	Credits			
PSYC 211	Introductory Behavioural Neuroscience.	3			
PSYC 212	Perception.	3			
PSYC 213	Cognition.	3			
PSYC 215	Social Psychology.	3			

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from the following:

Expand all Contract all

Course	Title	Credits			
NSCI 201	Introduction to Neuroscience 2.	3			
PSYC 301	Animal Learning and Theory.	3			
PSYC 302	Pain.	3			
PSYC 306	Research Methods in Psychology.	3			
PSYC 310	Intelligence.	3			
PSYC 311	Human Cognition and the Brain.	3			
PSYC 315	Computational Psychology.	3			
PSYC 317	Genes and Behaviour.	3			
PSYC 318	Behavioural Neuroscience 2.	3			
PSYC 319	Computational Models - Cognition.	3			
PSYC 329	Introduction to Auditory Cognition.	3			
PSYC 340	Psychology of Language.	3			
PSYC 341	The Psychology of Bilingualism.	3			
PSYC 342	Hormones and Behaviour.	3			
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3			
PSYC 353	Research Methods and Laboratory in Human Perception.	3			

- ¹ 1. Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken freshman linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
2. Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology .

List B - (Social, Health and Developmental Psychology)

6 credits in Psychology from the following:

Expand all Contract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 309	Positive Psychology: Science of Well-Being.	3
PSYC 328	Health Psychology.	3
PSYC 331	Inter-Group Relations.	3
PSYC 332	Introduction to Personality.	3
PSYC 333	Personality and Social Psychology.	3

PSYC 337	Introduction to Psychopathology.	3
PSYC 339	Introduction to Applied Psychology.	3
PSYC 351	Research Methods and Laboratory in Social Psychology.	3
PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 409	Positive Psychology.	3
PSYC 412	Child Development: Psychopathology .	3
PSYC 414	Social Development.	3
PSYC 436	Human Sexuality and Its Problems.	3
PSYC 471	Human Motivation.	3
PSYC 473	Social Cognition and the Self.	3
PSYC 474	Interpersonal Relationships.	3
PSYC 475	Neuroscience of Social Psychology.	3
PSYC 483	Seminar in Experimental Psychopathology.	3
PSYC 491D1	Advanced Study: Behavioural Disorders.	3
PSYC 491D2	Advanced Study: Behavioural Disorders.	3
PSYC 507	Emotions, Stress, and Illness.	3
PSYC 509	Diverse Clinical Populations.	3
PSYC 512	Advanced Personality Seminar.	3
PSYC 528	Vulnerability to Depression and Anxiety.	3
PSYC 530	Applied Topics in Deafness.	3
PSYC 535	Advanced Topics in Social Psychology.	3
PSYC 539	Advanced Topics in Social Psychology 2.	3

15 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

Course	Title	Credits
PSYC 385	Independent Research Project 1.	3
PSYC 450D1	Research Project and Seminar.	4.5
PSYC 450D2	Research Project and Seminar.	4.5
PSYC 484D1	Independent Research Project 2.	3
PSYC 484D2	Independent Research Project 2.	3
PSYC 485	Independent Research Project 3.	3
PSYC 492	Special Topics Seminar 1.	3
PSYC 493	Special Topics Seminar 2.	3
PSYC 499	Reading Project.	1

Program Description

Psychology is the scientific study of the mind and behavior. The B.Sc. Major in Psychology (54 credits) provides students with an in-depth overview, covering the core areas of psychological science as well as more advanced courses in specialized content areas. Students also have the option to complete a research course(s) and/or gain additional training in science related disciplines (see Program Requirements for details). This program provides students with the space to take the additional courses they may need for applying to graduate school in psychology and for completing the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs).

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-9 credits)

Students planning to enter the Major Psychology program should have completed an introductory course in general psychology, biology and statistics at the collegial level. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

Students who have completed General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

CEGEP students may not take PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

McGill Freshman students are recommended to complete the following courses in their UO year:

0-6 credits from:

Expand allContract all

Psychology Major (B.Sc.) (54 credits)

Offered by: Psychology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 54

Course	Title	Credits			
PSYC 100	Introduction to Psychology.	3	PSYC 319	Computational Models - Cognition.	3
PSYC 204	Introduction to Psychological Statistics. ¹	3	PSYC 329	Introduction to Auditory Cognition.	3

¹ Can be completed in U1 concurrently with the required psychology courses.

0-3 credits from:

Expand allContract all

Course	Title	Credits			
BIOL 111	Principles: Organismal Biology.	3	PSYC 340	Psychology of Language.	3
BIOL 112	Cell and Molecular Biology.	3	PSYC 341	The Psychology of Bilingualism.	3

Required Courses (15 credits)

U1

Expand allContract all

Course	Title	Credits			
PSYC 211	Introductory Behavioural Neuroscience.	3	PSYC 342	Hormones and Behaviour.	3
PSYC 212	Perception.	3	PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3
PSYC 213	Cognition.	3	PSYC 353	Research Methods and Laboratory in Human Perception.	3
PSYC 215	Social Psychology.	3	PSYC 403	Modern Psychology in Historical Perspective.	3

U1 or U2

Expand allContract all

Course	Title	Credits			
PSYC 305	Statistics for Experimental Design. ¹	3	PSYC 406	Psychological Tests.	3

¹ Students who wish to apply to the Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design. in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (39 credits)

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from the following:

Expand allContract all

Course	Title	Credits			
PSYC 301	Animal Learning and Theory.	3	PSYC 310	Intelligence.	3
PSYC 302	Pain.	3	PSYC 311	Human Cognition and the Brain.	3
PSYC 306	Research Methods in Psychology.	3	PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3	PSYC 318	Behavioural Neuroscience 2.	3

- ¹
- Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken freshman linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
 - Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning. over PSYC 560 Machine Learning Tools in Psychology ..

List B - (Social, Health, and Developmental Psychology)

6 credits in Psychology from the following:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3	PSYC 385	Independent Research Project 1.	3
PSYC 304	Child Development.	3	PSYC 450D1	Research Project and Seminar.	4.5
PSYC 309	Positive Psychology: Science of Well-Being.	3	PSYC 450D2	Research Project and Seminar.	4.5
PSYC 328	Health Psychology.	3	PSYC 484D1	Independent Research Project 2.	3
PSYC 331	Inter-Group Relations.	3	PSYC 484D2	Independent Research Project 2.	3
PSYC 332	Introduction to Personality.	3	PSYC 485	Independent Research Project 3.	3
PSYC 333	Personality and Social Psychology.	3	PSYC 492	Special Topics Seminar 1.	3
PSYC 337	Introduction to Psychopathology.	3	PSYC 493	Special Topics Seminar 2.	3
PSYC 339	Introduction to Applied Psychology.	3	PSYC 499	Reading Project.	1
PSYC 351	Research Methods and Laboratory in Social Psychology.	3			
PSYC 408	Principles and Applications of Psychotherapy.	3			
PSYC 409	Positive Psychology.	3			
PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3			
PSYC 412	Child Development: Psychopathology .	3			
PSYC 414	Social Development.	3			
PSYC 436	Human Sexuality and Its Problems.	3			
PSYC 471	Human Motivation.	3			
PSYC 473	Social Cognition and the Self.	3			
PSYC 474	Interpersonal Relationships.	3			
PSYC 483	Seminar in Experimental Psychopathology.	3			
PSYC 491D1	Advanced Study: Behavioural Disorders.	3			
PSYC 491D2	Advanced Study: Behavioural Disorders.	3			
PSYC 507	Emotions, Stress, and Illness.	3			
PSYC 509	Diverse Clinical Populations.	3			
PSYC 512	Advanced Personality Seminar.	3			
PSYC 528	Vulnerability to Depression and Anxiety.	3			
PSYC 530	Applied Topics in Deafness.	3			
PSYC 535	Advanced Topics in Social Psychology.	3			
PSYC 539	Advanced Topics in Social Psychology 2.	3			

6 credits in Psychology at the 300 level or above.

9 credits in Psychology at the 400 or 500 level.

12 credits at the 300 level or above in any of the following disciplines: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

Unclassified Courses

Students may also select complementary courses from the research and topics courses as follows:

Expand allContract all

Psychology Honours (B.Sc.) (60 credits)

Offered by: Psychology (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 60

Program Description

Psychology is the scientific study of the mind and behavior. The B.Sc. Honours in Psychology (60 credits) is a specialized program that provides students with an in-depth overview of psychological science, covering the core areas as well as more advanced courses. Students are required to take a 2-term research course and seminar; students also have the option to complete additional research course(s) and/or gain additional training in science related disciplines (see Program Requirements for details). This program emphasizes practice in the research techniques and statistics used in graduate school and professionally later on. It also provides students with the space to take the additional courses they may need for applying to graduate school in psychology and for completing the undergraduate credits in psychology as specified by the Ordre des Psychologues du Québec (which are required by some graduate psychology programs). Students must apply to the Honours program; admission is selective.

Program Requirements

Typically, students apply to the Honours program at the end of U1; students may apply at the end of U2, although there are often fewer seats for students applying in U2 (also the Honours program requirements must be completed within the remaining terms). To be eligible to apply to the B.Sc. Honours in Psychology, students must have completed a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). All applicants must have taken PSYC 204 Introduction to Psychological Statistics., PSYC 211 Introductory Behavioural Neuroscience., PSYC 212 Perception., PSYC 213 Cognition., PSYC 215 Social Psychology. and PSYC 305 Statistics for Experimental Design.. Exceptional performance in these courses is a primary criterion for acceptance into the Honours program. In addition to performance in these psychology courses, a minimum cumulative grade point average (CGPA) of 3.50 is required to apply.

However, since enrolment is limited, the typical CGPA cut-off is ~3.75, although this varies from year to year depending on the applicant pool. Once in the Honours program, students must obtain a GPA of 3.00 in the U2 year to continue in the Honours program for U3. Students are also encouraged to continue to complete a minimum of 27 graded

credits in their U2 and U3 academic years. This is also the minimum number of credits required to be eligible for fellowships and awards.

The application is available on the Psychology Department website at: <https://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the website. Candidates will be informed of the Department's decision via email before classes begin in September.

Awarding of the Honours degree will depend on both CGPA and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology.. "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in PSYC 380D1 Honours Research Project Seminar./PSYC 380D2 Honours Research Project Seminar. and PSYC 306 Research Methods in Psychology..

Degree Requirements – B.Sc.

This program is offered as part of a Bachelor of Science (B.Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Program Prerequisites (0-9 credits)

Students planning to enter the B.Sc. Honours Psychology program should have completed an introductory course in general psychology, biology and statistics at the collegial level. Otherwise, they can complete them in their first year of study at McGill University (see below).

Introduction to Psychology or General Psychology in CEGEP is equivalent to PSYC 100 Introduction to Psychology. at McGill. Students who have not completed either of those courses are advised to take PSYC 100 Introduction to Psychology. in their first year.

Students who have completed General Biology 1 or 2 in CEGEP would have the recommended biology background. Students who have not completed one of those courses are advised to complete BIOL 111 Principles: Organismal Biology. or BIOL 112 Cell and Molecular Biology. during their first year.

CEGEP students may not take PSYC 204 Introduction to Psychological Statistics. if they have completed Probability & Statistics or Statistics with a minimum grade of 75%.

McGill Freshman students are recommended to complete the following courses in their U0 year:

0-6 credits from:

Expand allContract all

Course	Title	Credits
PSYC 100	Introduction to Psychology.	3
PSYC 204	Introduction to Psychological Statistics.	3

¹ PSYC 204 Introduction to Psychological Statistics. can be completed in U1 concurrently with the required psychology courses.

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 111	Principles: Organismal Biology.	3
BIOL 112	Cell and Molecular Biology.	3

Required Courses (30 credits)

U1

Expand allContract all

Course	Title	Credits
PSYC 211	Introductory Behavioural Neuroscience.	3
PSYC 212	Perception.	3
PSYC 213	Cognition.	3
PSYC 215	Social Psychology.	3

U1 or U2

Expand allContract all

Course	Title	Credits
PSYC 305	Statistics for Experimental Design.	3

U2 Honours

Expand allContract all

Course	Title	Credits
PSYC 306	Research Methods in Psychology.	3
PSYC 380D1	Honours Research Project Seminar.	4.5
PSYC 380D2	Honours Research Project Seminar.	4.5

U2 or U3 Honours

Expand allContract all

Course	Title	Credits
PSYC 439	Correlational Techniques.	3

*Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above, including PSYC 305 Statistics for Experimental Design. in their U1 year to be eligible for admission. Also, all students must complete a minimum of 27 graded credits in the academic year prior to applying (fall and winter terms only). For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (30 credits)

3-9 credits must be completed with the following course(s):

Any 500-level Psychology course

Expand allContract all

Course	Title	Credits
PSYC 486	Independent Honours Research 1.	3
PSYC 487	Independent Honours Research 2.	3
PSYC 488D1	Independent Honours Research 3.	3
PSYC 488D2	Independent Honours Research 3.	3
PSYC 492	Special Topics Seminar 1.	3

If the 9 credits are not fulfilled with the above courses, the remaining 3-6 credits are to be completed with any 400-level Psychology course.

Note: Students entering Honours in U3 who previously took PSYC 385 Independent Research Project 1., PSYC 484D1 Independent Research Project 2./PSYC 484D2 Independent Research Project 2. and/or PSYC 485 Independent Research Project 3. may use these courses to fulfill the Honours Complementary Course requirements.

21 credits of Honours courses are to be completed with the following:

List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition, and Quantitative Methods).

Expand allContract all

Course	Title	Credits
NSCI 201	Introduction to Neuroscience 2.	3
PSYC 301	Animal Learning and Theory.	3
PSYC 302	Pain.	3
PSYC 306	Research Methods in Psychology.	3
PSYC 310	Intelligence.	3
PSYC 311	Human Cognition and the Brain.	3
PSYC 315	Computational Psychology.	3
PSYC 317	Genes and Behaviour.	3
PSYC 318	Behavioural Neuroscience 2.	3
PSYC 319	Computational Models - Cognition.	3
PSYC 329	Introduction to Auditory Cognition.	3
PSYC 340	Psychology of Language.	3
PSYC 341	The Psychology of Bilingualism.	3
PSYC 342	Hormones and Behaviour.	3
PSYC 352	Research Methods and Laboratory in Cognitive Psychology.	3
PSYC 353	Research Methods and Laboratory in Human Perception.	3
PSYC 403	Modern Psychology in Historical Perspective.	3
PSYC 406	Psychological Tests.	3
PSYC 410	Special Topics in Neuropsychology.	3
PSYC 413	Cognitive Development.	3

PSYC 415	Electroencephalography (EEG) Laboratory in Psychology.	3
PSYC 427	Sensorimotor Neuroscience.	3
PSYC 433	Cognitive Science.	3
PSYC 439	Correlational Techniques.	3
PSYC 443	Affective Neuroscience.	0-3
PSYC 444	Sleep Mechanisms and Behaviour.	3
PSYC 470	Memory and Brain.	3
PSYC 502	Psychoneuroendocrinology.	3
PSYC 506	Cognitive Neuroscience of Attention.	3
PSYC 513	Human Decision-Making.	3
PSYC 514	Neurobiology of Memory.	3
PSYC 522	Neurochemistry and Behaviour.	3
PSYC 526	Advances in Visual Perception.	3
PSYC 529	Music Cognition.	3
PSYC 531	Structural Equation Models.	3
PSYC 537	Advanced Seminar in Psychology of Language.	3
PSYC 538	Categorization, Communication and Consciousness.	3
PSYC 541	Multilevel Modelling.	3
PSYC 545	Topics in Language Acquisition.	3
PSYC 560	Machine Learning Tools in Psychology. ¹	3
PSYC 562	Measurement of Psychological Processes.	3

¹

1. Students who have taken COMP 202 Foundations of Programming, or COMP 204 Computer Programming for Life Sciences, and who have taken freshman linear algebra and calculus might instead consider taking COMP 551 Applied Machine Learning..
2. Students in both psychology and computer science are strongly encouraged to take COMP 551 Applied Machine Learning, over PSYC 560 Machine Learning Tools in Psychology ..

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology)

Expand allContract all

Course	Title	Credits
PSYC 304	Child Development.	3
PSYC 309	Positive Psychology: Science of Well-Being.	3
PSYC 328	Health Psychology.	3
PSYC 331	Inter-Group Relations.	3
PSYC 332	Introduction to Personality.	3
PSYC 333	Personality and Social Psychology.	3
PSYC 337	Introduction to Psychopathology.	3
PSYC 339	Introduction to Applied Psychology.	3
PSYC 351	Research Methods and Laboratory in Social Psychology.	3

PSYC 408	Principles and Applications of Psychotherapy.	3
PSYC 409	Positive Psychology.	3
PSYC 411	Discrimination & Wellbeing in Marginalized Communities.	3
PSYC 412	Child Development: Psychopathology .	3
PSYC 414	Social Development.	3
PSYC 436	Human Sexuality and Its Problems.	3
PSYC 471	Human Motivation.	3
PSYC 473	Social Cognition and the Self.	3
PSYC 474	Interpersonal Relationships.	3
PSYC 475	Neuroscience of Social Psychology.	3
PSYC 483	Seminar in Experimental Psychopathology.	3
PSYC 491D1	Advanced Study: Behavioural Disorders.	3
PSYC 491D2	Advanced Study: Behavioural Disorders.	3
PSYC 507	Emotions, Stress, and Illness.	3
PSYC 509	Diverse Clinical Populations.	3
PSYC 512	Advanced Personality Seminar.	3
PSYC 528	Vulnerability to Depression and Anxiety.	3
PSYC 530	Applied Topics in Deafness.	3
PSYC 535	Advanced Topics in Social Psychology.	3
PSYC 539	Advanced Topics in Social Psychology 2.	3

9 credits at the 300 level or above selected from:

Anatomy and Cell Biology (ANAT), Biochemistry (BIOC), Biology (BIOL), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PYST), Psychology (PSYC).

Natural History Minor (B.Sc.) (24 credits)

Offered by: Redpath Museum (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 24

Program Description

The Minor Natural History involves the exploration of the natural world via specimen-based studies, object-oriented investigations and field studies. Museum collections are used to provide hands-on experience with real objects and specimens. The required course brings students to the Redpath Museum and other McGill natural science museums and exposes them to natural history methodologies and the value of specimen-based studies. Complementary course lists are drawn from a variety of disciplines to emphasize breadth and integration with the inclusion of specimen- or object-based courses and field courses in zoology, botany, and earth and environmental sciences. To ensure breadth, students are required to choose courses from among these lists. A compulsory field course component rounds out the program.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
REDM 400	Science and Museums.	3

Complementary Courses (21 credits)

Students select 21 credits from among four course lists (A (Zoology), B (Botany), C (Earth and Environmental Sciences), and D (Field Courses)) with the following specifications.

- At least 3 credits and no more than 9 credits from each of Lists A, B, and C.
- At least 3 credits from List D.
- No more than 3 credits from any one list may be at the 200 level.

Note: Students may take up to a maximum of 9 credits of courses outside the Faculties of Arts and of Science.

List A: Zoology

Expand allContract all

Course	Title	Credits
AEBI 211	Organisms 2.	3
ANTH 312	Zooarchaeology.	3
BIOL 205	Functional Biology of Plants and Animals. ¹	3
BIOL 215	Introduction to Ecology and Evolution. ¹	3
BIOL 305	Animal Diversity. ²	3
BIOL 350	Insect Biology and Control.	3
BIOL 352	Dinosaur Biology.	3
BIOL 418	Freshwater Invertebrate Ecology.	3
BIOL 427	Herpetology.	3
ENTO 330	Insect Biology. ²	3
EPSC 334	Invertebrate Paleontology.	3
WILD 307	Natural History of Vertebrates.	3
WILD 350	Mammalogy.	3
WILD 420	Ornithology.	3

¹ BIOL 205 Functional Biology of Plants and Animals. and BIOL 215 Introduction to Ecology and Evolution. may be applied to either List A or List B.

² If chosen, students may take either ENTO 330 or BIOL 350.

List B: Botany

Expand allContract all

Course	Title	Credits
AEBI 210	Organisms 1.	3
BIOL 205	Functional Biology of Plants and Animals. ¹	3
BIOL 215	Introduction to Ecology and Evolution. ¹	3
BIOL 240	Monteregian Flora.	3
PLNT 304	Biology of Fungi.	3
PLNT 353	Plant Structure and Function.	3

PLNT 358	Flowering Plant Diversity.	3	www.mcgill.ca/dise/grad) if they are interested in obtaining a teaching license.
PLNT 460	Plant Ecology.	3	

¹ BIOL 205 Functional Biology of Plants and Animals, and BIOL 215 Introduction to Ecology and Evolution, may be applied to either List A or List B.

List C: Earth and Environmental Sciences

Expand allContract all

Course	Title	Credits
BIOL 540	Ecology of Species Invasions.	3
ENVR 200	The Global Environment.	3
ENVR 202	The Evolving Earth.	3
EPSC 210	Introductory Mineralogy.	3
EPSC 233	Earth and Life Through Time	3
ESYS 200	Earth-System Interactions.	3
ESYS 300	Earth Data Analysis.	3
GEOG 203	Environmental Systems.	3
GEOG 272	Earth's Changing Surface.	3
GEOG 470	Wetlands.	3
GEOG 550	Historical Ecology Techniques.	3

List D: Field Studies

Students may also take other field courses with the permission of the Program Adviser.

Expand allContract all

Course	Title	Credits
BIOL 331	Ecology/Behaviour Field Course.	3
BIOL 335	Marine Mammals.	3
BIOL 573	Vertebrate Palaeontology Field Course.	3
ENTO 340	Field Entomology.	3
EPSC 231	Field School 1.	3
WILD 475	Desert Ecology.	3

Education for Science Students Minor (B.Sc.) (18 credits)

Offered by: Education - Dean's Office (Faculty of Science)

Degree: Bachelor of Science

Program credit weight: 18

Program Description

This Minor allows Science students to develop or explore an interest in Education without committing themselves to completing a B.Ed. degree. Science students who have taken this Minor in Education will have completed some of the credits for the B.Ed. degree should they wish to enroll in that program. Students graduating with a B.Sc. should also consider the Master of Arts in Teaching and Learning (<https://>

www.mcgill.ca/dise/grad) if they are interested in obtaining a teaching license.

This minor program requires an application due to limited enrolment space. Please see <https://www.mcgill.ca/isa/student/minor> for procedures and deadlines.

For more information please contact:

Internships & Student Affairs Office, Faculty of Education

General Information: 514-398-7042

Website: <http://www.mcgill.ca/isa>

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDEC 260	Philosophical Foundations.	3
EDPE 300	Educational Psychology.	3

Complementary Courses (12 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 233	Indigenous Education.	3
EDEC 248	Equity and Education.	3
EDEC 249	Global Education and Social Justice.	3

3 credits from:

Expand allContract all

Course	Title	Credits
EDEC 247	Policy Issues in Quebec and Indigenous Education.	3
EDEM 220	Contemporary Issues in Education.	3

6 credits from:

Expand allContract all

Course	Title	Credits
EDEC 262	Media, Technology and Education.	3
EDES 335	Teaching Secondary Science 1. ¹	3
EDES 353	Teaching Secondary Mathematics 1. ¹	3
EDPE 304	Measurement and Evaluation.	3
EDPI 341	Instruction in Inclusive Schools.	3

¹ Note: Students select either EDES 335 Teaching Secondary Science 1. or EDES 353 Teaching Secondary Mathematics 1..

Animal Science (Thesis) (M.Sc.) (45 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The MSc in Animal Science is a 45-credit, research, thesis-based program. Research can be in any relevant area of animal science under the supervision of an appropriate departmental academic staff member. The program provides a solid background in an area of animal science, critical thinking, leadership and science communication.

The program typically takes 2 years to complete.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
ANSC 680	M.Sc. Thesis 1.	9
ANSC 681	M.Sc. Thesis 2.	9
ANSC 682	M.Sc. Thesis 3.	9
ANSC 683	M.Sc. Thesis 4.	9

Required Courses (9 credits)

6 credits of coursework at the 500 level or higher approved by the student's advisory committee, and three 1-credit seminars.

Expand allContract all

Course	Title	Credits
ANSC 695	MSc General Topic Seminar.	1
ANSC 696	MSc Research Proposal Seminar.	1
ANSC 697	MSc Research Results Seminar.	1

Depending on the needs and competencies of the student, additional coursework may be assigned by the supervisory committee.

Animal Science (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in animal production with allied areas of agricultural resource utilization.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
ANSC 643	Project 1.	3
ANSC 644	Project 2.	3
ANSC 645	Project 3.	3
ANSC 646	Project 4.	3
ANSC 647	Project 5.	3

Complementary Courses (30 credits)

0-15 credits selected from 500- and 600-level courses from across the Faculty (with the possibility of up to 9 credits from outside the Faculty if deemed appropriate by the supervisor).

15-30 credits from the following:

Expand allContract all

Course	Title	Credits
AEMA 610	Statistical Methods 2.	3
ANSC 530	Experimental Techniques in Nutrition.	3
ANSC 551	Carbohydrate and Lipid Metabolism.	3
ANSC 552	Protein Metabolism and Nutrition.	3
ANSC 560	Biology of Lactation.	3
ANSC 600	Advanced Eukaryotic Cells and Viruses.	3
ANSC 604	Advanced Animal Biotechnology.	3
ANSC 608	Population Genetics.	3
ANSC 636	Analysis - Animal Breeding Research Data.	3
ANSC 691	Special Topic: Animal Sciences.	3
ANSC 692	Topic in Animal Sciences 1.	3

Animal Science (Non-Thesis): Sustainable Agriculture (M.Sc.A.) (45 credits)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science, Applied

Program credit weight: 45

Program Description

Climate change and rising human population have increased the need for sustainable agricultural practices. The Sustainable Agriculture option is taken with a M.Sc. Applied (Non-Thesis) program, and designed for students who wish to supplement their basic degree with graduate studies in animal science, with a specific focus on sustainability in agriculture. Students will be exposed to different approaches to improve the sustainability of agricultural systems through specialized coursework and a research project. The program aims to provide graduate training in applied areas of animal production with a view toward integrating technology and management in sustainable animal production with allied areas of agricultural resource utilization.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
ANSC 643	Project 1.	3
ANSC 644	Project 2.	3
ANSC 645	Project 3.	3

ANSC 646	Project 4.	3
ANSC 647	Project 5.	3

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ANSC 555	The Use and Welfare of Animals.	3
BREE 533	Water Quality Management.	3
IGFS 611	Advanced Issues on Development, Food and Agriculture.	3
PLNT 602	Advances in Agronomy.	3

Complementary Courses (18 credits)

0-6 credits of sufficient 500-, or 600-level courses (with Adviser's approval) to bring the total credits to 45.

3 credits from the following list:

Expand allContract all

Course	Title	Credits
AEMA 610	Statistical Methods 2.	3
AEMA 611	Experimental Designs 1.	3
AEMA 614	Temporal and Spatial Statistics 1.	3

9-15 credits from the following list:

Expand allContract all

Course	Title	Credits
ANSC 530	Experimental Techniques in Nutrition.	3
ANSC 551	Carbohydrate and Lipid Metabolism.	3
ANSC 552	Protein Metabolism and Nutrition.	3
ANSC 560	Biology of Lactation.	3
ANSC 604	Advanced Animal Biotechnology.	3
ANSC 611	Advanced Reproductive Biology.	3
FDSC 545	Advances in Food Microbiology.	3
PLNT 635	Advanced Plant Breeding.	3
PLNT 662	Advances in Plant Biotechnology.	3

Animal Science (Ph.D.)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

Since the Ph.D. is primarily a research degree, the amount of coursework required will depend on the background of the individual student, and must be approved by the student's advisory committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show

familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Two seminar courses at the 500, 600, or 700 level.

Expand allContract all

Course	Title	Credits
ANSC 701	Doctoral Comprehensive Examination.	0

Animal Science: Bioinformatics (Ph.D.)

Offered by: Animal Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (5 credits)

Expand allContract all

Course	Title	Credits
ANSC 701	Doctoral Comprehensive Examination.	0
ANSC 797	Animal Science Seminar 3.	1
ANSC 798	Animal Science Seminar 4.	1
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5

Complementary Courses (6 credits)

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

Two courses chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3

BTEC 555	Structural Bioinformatics.	3	various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.
PHGY 603	Systems Biology and Biophysics.	3	

Bioresource Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

This option for the M.Sc. degree is oriented toward individuals who intend to develop a career in bioresource engineering research.

Required Courses (36 credits)

Expand allContract all

Course	Title	Credits
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1
BREE 699	Scientific Publication.	3

Thesis Courses

Expand allContract all

Course	Title	Credits
BREE 691	M.Sc. Thesis 1.	4
BREE 692	M.Sc. Thesis 2.	4
BREE 693	M.Sc. Thesis 3.	4
BREE 694	M.Sc. Thesis 4.	4
BREE 695	M.Sc. Thesis 5.	4
BREE 696	M.Sc. Thesis 6.	4
BREE 697	M.Sc. Thesis 7.	4
BREE 698	M.Sc. Thesis 8.	3

Complementary Courses (9 credits)

500-, 600-, or 700-level courses in bioresource engineering and other fields to be determined in consultation with the Research Director.

Bioresource Engineering: Environment (Ph.D.)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Ph.D. in Bioresource Engineering Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Note: BREE 701 Ph.D. Comprehensive Examination., the comprehensive component, must be taken either late in the first, or early in the second, registration year to qualify to proceed to the completion of the Ph.D. degree.

Course	Title	Credits
BREE 701	Ph.D. Comprehensive Examination.	0
BREE 751	Departmental Seminar Ph.D. 1.	0
BREE 752	Departmental Seminar Ph.D. 2.	0
BREE 753	Departmental Seminar Ph.D. 3.	0
BREE 754	Departmental Seminar Ph.D. 4.	0
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (6 credits)

3-6 credits from:

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Bioresource Engineering (Non-Thesis): Integrated Water Resources Management (M.Sc.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) in Bioresource Engineering; Non-Thesis - Integrated Water Resources Management program is a one-year professional course-based program, including an internship, which is a central feature of the program. The program provides an essential approach to the sustainable management of our natural watershed resources, and focuses on the biophysical, environmental, legal, institutional, and socio-economic aspects of water use and management, in an integrated context.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
BREE 631	Integrated Water Resources Management Project.	6

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
BREE 503	Water: Society, Law and Policy.	3
BREE 510	Watershed Systems Management.	3
BREE 630	Integrated Water Resources Management Internship.	13
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1
BREE 655	Integrated Water Resources Management Research Visits.	3
PARA 515	Water, Health and Sanitation.	3

Elective Courses (12 credits)

12 credits, at the 500 level or higher, of any relevant course(s) chosen in consultation with the Program Director.

Bioresource Engineering (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The non-thesis option is aimed toward individuals already employed in industry or seeking to improve their skills in specific areas (soil and water/structures and environment/waste management/environment protection/post-harvest technology/food process engineering/environmental engineering) in order to enter the engineering profession at a higher level.

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc. Applied program.

Each candidate for this option is expected to establish and maintain contact with his/her academic adviser in the Department of Bioresource Engineering some time before registration in order to clarify objectives, investigate project possibilities and plan a program of study.

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
BREE 671	Project 1.	6
BREE 672	Project 2.	6

Required Courses (2 credits)

Expand allContract all

Course	Title	Credits
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1

Complementary Courses (31 credits)

31 credits of 500-, 600-, or 700-level courses in bioresource engineering and other fields to be determined in consultation with the Project Director.

¹ Note: 12 of the 31 credits are expected to be from collaborative departments, e.g., food process engineering: 12 credits divided between Food Science and Chemical Engineering.

Bioresource Engineering (Non-Thesis): Environment (M.Sc.A.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

This program is currently not offered.

The M.Sc.(Applied) in Bioresource Engineering; Non-Thesis - Environment is a program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the

program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Candidates must meet the qualifications of a professional engineer either before or during their M.Sc.(Applied) program.

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
BREE 671	Project 1.	6
BREE 672	Project 2.	6

Required Courses (5 credits)

Expand allContract all

Course	Title	Credits
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (28 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Options Committee.

22 additional credits of 500-level or higher chosen in consultation with the academic adviser.

Bioresource Engineering (Non-Thesis): Environmental Engineering (M.Sc.A.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

This inter-departmental graduate program leads to a master's degree in Environmental Engineering. The objective of the program is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. This non-thesis degree falls within the M.Eng. and M.Sc. programs which are offered in the Departments of Bioresource, Chemical, Civil, and Mining, Metals, and Materials Engineering.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
BREE 671	Project 1.	6
BREE 672	Project 2.	6

¹ BREE 671 Project 1. may also be taken as part of this requirement.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CHEE 591	Environmental Bioremediation.	3
CIVE 615	Environmental Engineering Seminar.	3

Complementary Courses (19 credits)

Data Analysis Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3
OCCH 616	Occupational Hygiene.	3

Water Pollution Engineering Course

4 credits from the following:

Expand allContract all

Course	Title	Credits
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4

Air Pollution Engineering Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 592	Industrial Air Pollution Control.	3
MECH 534	Air Pollution Engineering.	3

or an approved 500-, 600-, or 700-level alternative course.

Environmental Impact Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

or an approved 500-, 600-, or 700-level alternative course.

Environmental Policy Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

or an approved 500-, 600-, or 700-level alternative course.

Further complementary courses (balance of coursework to meet the 45-credit program requirement):

Remaining Engineering or Non-Engineering courses from an approved list of courses, at the 500, 600, or 700 level, from the Faculty of Engineering, Faculty of Agricultural and Environmental Sciences, Faculty of Law, Faculty of Religious Studies, Desautels Faculty of Management, and Departments of Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, Sociology, and the Bieler School of Environment.

Bioresource Engineering (Non-Thesis): Integrated Food and Bioprocessing (M.Sc.A.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The Master of Science(Applied) [M.Sc.(A.)] in Bioresource Engineering; Non-Thesis - Integrated Food and Bioprocessing program provides the tools to understand how food and agricultural production interact to better manage agricultural, food, and biomass systems for the adequate supply of wholesome food, feed, fiber, biofuel, and any other bio-based material. The program focuses on the skills needed to assess existing production, delivery, and quality management systems; introduce improvements; and communicate effectively

with policymakers and colleagues in multi-disciplinary teams. The program provides up-to-date, world-class knowledge on techniques for adequate process design and management of biomass production strategies for the delivery of quality food, natural fiber, biochemicals, biomaterials, and biofuels, in a sustainable and environment-friendly way that benefits all. Training activities will include laboratory research and/or industrial/government internships.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BREE 600	Project/Internship Proposal.	1
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1
BREE 699	Scientific Publication.	3

Complementary Courses (39 credits)

9 credits of any relevant graduate-level course chosen in consultation with the Program Director.

Minimum of 3 credits of graduate-level Statistics in any department

Minimum of 9 credits from courses selected from the following:

Expand allContract all

Course	Title	Credits
BREE 518	Ecological Engineering.	3
BREE 519	Advanced Food Engineering.	3
BREE 520	Food, Fibre and Fuel Elements.	3
BREE 530	Fermentation Engineering.	3
BREE 531	Post-Harvest Drying.	3
BREE 532	Post-Harvest Storage.	3
BREE 535	Food Safety Engineering.	3
BREE 603	Advanced Properties: Food and Plant Materials.	3

Minimum of 12 credits selected from the following:

Expand allContract all

Course	Title	Credits
BREE 601	Integrated Food and Bioprocessing Internship 1.	6
BREE 602	Integrated Food and Bioprocessing Internship 2.	6
BREE 671	Project 1.	6
BREE 672	Project 2.	6

Minimum of 3 credits selected from the following:

Expand allContract all

Course	Title	Credits
AGRI 510	Professional Practice.	3

Minimum of 3 credits selected from the following:

Expand allContract all

Course	Title	Credits
BTEC 502	Biotechnology Ethics and Society.	3
FDSC 519	Advanced Food Processing.	3
FDSC 538	Food Science in Perspective.	3
GEOG 515	Contemporary Dilemmas of Development.	3
NUTR 501	Nutrition in the Majority World.	3

Bioresource Engineering (Thesis): Environment (M.Sc.) (45 credits)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Bioresource Engineering (Ph.D.)

Offered by: Bioresource Engineering (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

Candidates for the Ph.D. degree will normally register for the M.Sc. degree first. In cases where the research work is proceeding very satisfactorily, or where the equivalent of the M.Sc. degree has been completed previously, candidates may be permitted to proceed directly to the Ph.D. degree.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
BREE 651	Departmental Seminar M.Sc. 1.	1
BREE 652	Departmental Seminar M.Sc. 2.	1
BREE 699	Scientific Publication.	3
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses

Courses of study selected for a Ph.D. program will depend on the existing academic qualifications of the candidate, and on those needed for effective pursuit of research in the chosen field. Candidates are encouraged to take an additional course of study of their own choice in some field of the humanities, sciences, or engineering not directly related to their research. The program will be established by consultation of the candidate with a committee that will include the Research Director and at least one other professor.

Program Description

This program is currently not offered.

The M.Sc. in Bioresource Engineering; (Thesis) Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical.) interact to define environment and sustainability issues.

Required Courses (39 credits)

Expand allContract all

Course	Title	Credits
BREE 691	M.Sc. Thesis 1.	4
BREE 692	M.Sc. Thesis 2.	4
BREE 693	M.Sc. Thesis 3.	4
BREE 694	M.Sc. Thesis 4.	4
BREE 695	M.Sc. Thesis 5.	4
BREE 696	M.Sc. Thesis 6.	4
BREE 697	M.Sc. Thesis 7.	4
BREE 698	M.Sc. Thesis 8.	3

Thesis Courses

Expand allContract all

Course	Title	Credits
BREE 701	Ph.D. Comprehensive Examination.	0
BREE 751	Departmental Seminar Ph.D. 1.	0
BREE 752	Departmental Seminar Ph.D. 2.	0
BREE 753	Departmental Seminar Ph.D. 3.	0
BREE 754	Departmental Seminar Ph.D. 4.	0

Complementary Courses (6 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Biotechnology (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Parasitology (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The M.Sc.(Applied) in Biotechnology; Non-Thesis provides training in cell and molecular biology, and protein biochemistry, with a strong focus on the molecular/biochemical sciences. Concurrently, it provides teaching in management and the business aspect of biotechnology. The program also includes practical training in a laboratory and internships.

Research Project (16 credits)

Expand allContract all

Course	Title	Credits
BTEC 622	Biotechnology Research Project 1.	2
BTEC 623	Biotechnology Research Project 2.	6
BTEC 624	Biotechnology Research Project 3.	6
BTEC 625	Biotechnology Research Project 4.	2

Required Courses (20 credits)

Expand allContract all

Course	Title	Credits
BIOT 505	Selected Topics in Biotechnology.	3
BTEC 501	Bioinformatics.	3
BTEC 619	Biotechnology Laboratory 2.	4
BTEC 620	Biotechnology Laboratory 1.	4
BTEC 621	Biotechnology Management.	3
HGEN 660	Genetics and Bioethics.	3

Complementary Courses (9 credits)

9 credits at the 500 level or higher, selected within the Faculties of Agricultural and Environmental Sciences, Medicine, Science, or Management in consultation with the academic adviser of the program in line with the interests of the student.

Biotechnology (Gr. Cert.) (16 credits)

Offered by: Parasitology (Faculty of Agricultural and Environmental Sciences)

Program credit weight: 16

Program Description

The Graduate Certificate in Biotechnology focuses on biotechnology and the latest molecular biology techniques.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
BIOT 505	Selected Topics in Biotechnology.	3
BTEC 620	Biotechnology Laboratory 1.	4
BTEC 621	Biotechnology Management.	3

Complementary Courses (6 credits)

Two courses chosen from the following:

General Topics

Expand allContract all

Course	Title	Credits
BINF 511	Bioinformatics for Genomics.	3
BIOL 524	Topics in Molecular Biology.	3
BIOL 568	Topics on the Human Genome.	3
BTEC 501	Bioinformatics.	3
BTEC 502	Biotechnology Ethics and Society.	3
BTEC 535	Functional Genomics in Model Organisms.	3
BTEC 555	Structural Bioinformatics.	3
EXMD 602	Techniques in Molecular Genetics.	3

Health

Expand allContract all

Course	Title	Credits
EXMD 610	Molecular Methods in Medical Research.	3
PARA 635	Cell Biology and Infection.	3
PHGY 518	Artificial Cells.	3

Environment and Food

Expand allContract all

Course	Title	Credits
BREE 530	Fermentation Engineering.	3

Food Science and Agricultural Chemistry (Thesis) (M.Sc.) (45 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)
Degree: Master of Science
Program credit weight: 45

Program Description

For candidates entering the M.Sc. program without restrictions, i.e., those not requiring a qualifying term/year, the M.Sc. degree consists of 45 graduate credits. These credits are obtained through a combination of graduate courses and a research thesis.

The residence time for a M.Sc. degree is three academic terms based on unqualified entry into the M.Sc. program. Students are encouraged to complete their studies within this time frame.

Thesis (30 credits)

Expand allContract all

Course	Title	Credits
FDSC 690	M.Sc. Literature Review.	8
FDSC 691	M.Sc. Research Protocol.	7
FDSC 692	M.Sc. Thesis.	15

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
FDSC 695	M.Sc. Graduate Seminar 1.	3
FDSC 696	M.Sc. Graduate Seminar 2.	3

Complementary Courses (9 credits)

At least 9 credits, normally from 500- or 600-level departmental courses.

Food Science and Agricultural Chemistry (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)
Degree: Master of Science
Program credit weight: 45

Program Description

This 45-credit program is offered to candidates who seek further training in Food Science, but do not wish to pursue independent research. These credits are obtained through a combination of graduate courses.

The residence time for a M.Sc. degree (Non-Thesis) is three academic terms.

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
FDSC 697	M.Sc. Project Part 1.	6
FDSC 698	M.Sc. Project Part 2.	6

Complementary Courses (18 credits)

3 credits chosen from the following:

Expand allContract all

Course	Title	Credits
FDSC 695	M.Sc. Graduate Seminar 1.	3
FDSC 696	M.Sc. Graduate Seminar 2.	3

15 credits chosen from the following:

Expand allContract all

Course	Title	Credits
AGRI 510	Professional Practice.	3
FDSC 515	Enzymology.	3
FDSC 516	Flavour Chemistry.	3
FDSC 519	Advanced Food Processing.	3
FDSC 520	Biophysical Chemistry of Food.	3
FDSC 536	Food Traceability.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 538	Food Science in Perspective.	3
FDSC 540	Sensory Evaluation of Foods.	3
FDSC 545	Advances in Food Microbiology.	3
FDSC 634	Food Toxins and Toxicants.	3
FDSC 651	Principles of Food Analysis 2.	3
FDSC 652	Separation Techniques in Food Analysis 2.	3

Elective Courses (15 credits)

At the 500 level or higher, and chosen in consultation with the academic adviser.

Food Science & Agricultural Chemistry: Food Safety (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The program is intended to train graduate students as specialists in food safety with the expectation that graduates will be well prepared

academically to take on the challenging food safety events and issues that emerge both in Canada and globally. The program will cover food safety through the entire food supply chain from food production through processing/manufacturing to the food consumer; the courses which make up the program reflect the food safety considerations at the different stages of the farm to table food supply chain.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
FDSC 545	Advances in Food Microbiology.	3
FDSC 624	Current Food Safety Issues.	3
FDSC 626	Food Safety Risk Assessment.	3
FDSC 634	Food Toxins and Toxicants.	3

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
FDSC 697	M.Sc. Project Part 1.	6
FDSC 698	M.Sc. Project Part 2.	6

Complementary Courses (15 credits)

3 credits chosen from the following:

Expand allContract all

Course	Title	Credits
FDSC 695	M.Sc. Graduate Seminar 1.	3
FDSC 696	M.Sc. Graduate Seminar 2.	3

12 credits chosen from the following:

Expand allContract all

Course	Title	Credits
AGRI 510	Professional Practice.	3
BREE 535	Food Safety Engineering.	3
FDSC 525	Food Quality Assurance.	3
FDSC 536	Food Traceability.	3
FDSC 555	Comparative Food Law.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
OCCH 612	Principles of Toxicology.	3
PARA 515	Water, Health and Sanitation.	3

Elective Courses (6 credits)

At the 500 level or higher, and selected in consultation with the academic adviser.

Food Science and Agricultural Chemistry (Ph.D.)

Offered by: Food Science&Agr.Chemistry (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

Candidates will be judged principally on their research ability. Coursework will be arranged in consultation with the student's departmental graduate advisory committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Note: Candidates should be prepared to take the Comprehensive Preliminary Examination before the end of the second year of the program.

Expand allContract all

Course	Title	Credits
FDSC 700	Comprehensive Preliminary Examination.	0
FDSC 725	Advanced Topics in Food Science.	3
FDSC 797	Ph.D. Graduate Seminar 1.	3
FDSC 798	Ph.D. Graduate Seminar 2.	3

Human Nutrition (Thesis) (M.Sc.) (45 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Human Nutrition focuses on advanced nutrition, statistics, and research methods. The program includes research activities related to the specific thesis topic chosen from a broad range of nutrition areas, under the primary supervision of one of the School's Faculty.

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
NUTR 680	Human Nutrition M.Sc. Thesis 1.	7
NUTR 681	Human Nutrition M.Sc. Thesis 2.	8
NUTR 682	Human Nutrition M.Sc. Thesis 3.	9
NUTR 683	Human Nutrition M.Sc. Thesis 4.	9

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
NUTR 695	Human Nutrition Research Orientation.	1
NUTR 696	Human Nutrition Seminar.	1
NUTR 697	MSc Final Presentation.	1

Complementary Courses (9 credits)

3 credits in graduate-level statistics

3 credits in graduate-level research methods

3 credits in graduate-level courses (chosen in consultation with supervisory committee)

Human Nutrition (Non-Thesis): Dietetics Credentialing (M.Sc.A.) (83 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 83

Program Description

The M.Sc.(Applied) in Human Nutrition; Non-Thesis – Dietetics Credentialing includes competency-based professional practice (Stage) experiences in clinical nutrition care, public health nutrition, food provision management and research. The program focuses on nutrition and food expertise, leadership, communication, management skills and critical thinking. This program is accredited by Accreditation Canada, and graduates apply to the Ordre des diététistes-nutritionnistes du Québec (ODNQ) following the "règlement sur les normes d'équivalence de diplôme et formation" application procedures. Graduates from the program meet all the standards and requirements of this professional order (ODNQ) and are eligible to apply to any other regulatory body in any other province in Canada.

Required Courses (77 credits)

Expand allContract all

Course	Title	Credits
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
NUTR 503	Nutrition and Exercise.	3
NUTR 505	Public Health Nutrition.	3
NUTR 511	Nutrition and Behaviour.	3
NUTR 545	Clinical Nutrition 2.	4
NUTR 546	Clinical Nutrition 3.	4
NUTR 551	Analysis of Nutrition Data.	3

NUTR 603	Credentialing in Dietetics.	3
NUTR 606	Human Nutrition Research Methods.	3
NUTR 607	Counselling in Professional Practice .	3
NUTR 611	Graduate Professional Practice 1.	2
NUTR 612	Graduate Professional Practice 2 Management.	8
NUTR 613	Graduate Professional Practice 3 Clinical Nutrition.	7
NUTR 614	Graduate Professional Practice 4 Community Nutrition.	8
NUTR 615	Graduate Professional Practice 5 Clinical Nutrition.	7
NUTR 618	Dietetics Professional Practice.	1
NUTR 625	Emerging Issues for Nutritionists.	3
NUTR 629	Professional Dietetics Project.	6
NUTR 651	M.Sc. (Applied) Literature Review.	3
NUTR 660	M.Sc.(Applied) Final Presentation.	1
NUTR 695	Human Nutrition Research Orientation.	1
NUTR 696	Human Nutrition Seminar.	1

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
AEMA 610	Statistical Methods 2.	3
ANSC 560	Biology of Lactation.	3
EDKP 654	Sport Psychology.	3
EDPC 501	Facilitating Relationships .	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPE 502	Theories of Human Development.	3
EPIB 507	Biostats for Health Sciences.	3
FDSC 537	Nutraceutical Chemistry.	3
FDSC 538	Food Science in Perspective.	3
FDSC 545	Advances in Food Microbiology.	3
NUTR 501	Nutrition in the Majority World.	3
NUTR 502	Independent Study 2.	3
NUTR 506	Qualitative Methods in Nutrition.	3
NUTR 507	Advanced Nutritional Biochemistry.	3
NUTR 512	Herbs, Foods and Phytochemicals.	3
NUTR 537	Advanced Human Metabolism.	3
NUTR 608	Special Topics 1.	3
NUTR 610	Pediatric and Maternal Nutrition.	3
NUTR 641	Advanced Global Food Security.	3
PSYC 650	Advanced Statistics 1.	3

Elective Courses (3 credits)

3 credits at the 500 level or higher, to be chosen in consultation with the Program Director.

Compulsory Immunization

A compulsory immunization program exists at McGill which is required for Dietetics students. Students should complete their immunization upon commencing the program. Confirmation of immunization will be coordinated by the Student Wellness Hub (<https://www.mcgill.ca/wellness-hub/>). Certain deadlines apply.

Human Nutrition (Non-Thesis): Practicum (M.Sc.A.) (45 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The M.Sc.(Applied) in Human Nutrition; Non-Thesis - Practicum is a course-based program that focuses on advanced nutrition. It includes a practicum in clinical or applied nutrition.

Practicum (12 credits)

Expand allContract all

Course	Title	Credits
NUTR 656	M.Sc. (Applied) Practicum 1.	3
NUTR 657	M.Sc. (Applied) Practicum 2.	3
NUTR 658	M.Sc. (Applied) Practicum 3.	3
NUTR 659	M.Sc. (Applied) Practicum 4.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
NUTR 651	M.Sc. (Applied) Literature Review.	3
NUTR 660	M.Sc.(Applied) Final Presentation.	1
NUTR 695	Human Nutrition Research Orientation.	1
NUTR 696	Human Nutrition Seminar.	1

Complementary Courses (18 credits)

3 credits in statistics at the 500 level or higher

3 credits in research methods at the 500 level or higher

12 credits of course work, at the 500 level or higher, in Nutrition, Animal Science, or Food Science chosen in consultation with the student's supervisor.

Elective Courses (9 credits)

9 credits of 500-level or higher courses in consultation with the student's academic adviser or supervisor.

Human Nutrition (Non-Thesis): Project (M.Sc.A.) (45 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The M.Sc.(Applied) in Human Nutrition; Non-Thesis - Project is a course-based program that focuses on advanced nutrition. It includes a research project in the community, clinic or laboratory.

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
NUTR 652	M.Sc. (Applied) Project 1.	3
NUTR 653	M.Sc. (Applied) Project 2.	3
NUTR 654	M.Sc. (Applied) Project 3.	3
NUTR 655	M.Sc. (Applied) Project 4.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
NUTR 651	M.Sc. (Applied) Literature Review.	3
NUTR 660	M.Sc.(Applied) Final Presentation.	1
NUTR 695	Human Nutrition Research Orientation.	1
NUTR 696	Human Nutrition Seminar.	1

Complementary Courses (18 credits)

3 credits of 500-level or higher Statistics.

3 credits in research methods at the 500 level or higher

12 credits of course work, at the 500 level or higher, in Nutrition, Animal Science, or Food Science chosen in consultation with the student's supervisor.

Elective Courses (9 credits)

9 credits of 500-level or higher courses in consultation with the student's academic adviser or supervisor.

Human Nutrition (Ph.D.)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
NUTR 695	Human Nutrition Research Orientation.	1
NUTR 701	Doctoral Comprehensive Examination.	0
NUTR 796	PhD Research Presentation.	1

Registered Dietitian Credentialing (Gr. Dip.) (30 credits)

Offered by: Human Nutrition (Faculty of Agricultural and Environmental Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Registered Dietitian Credentialing is open to students with a Ph.D. in Human Nutrition from the School of Human Nutrition who would like to become a member of the Ordre professionnel des diététistes du Québec (OPDQ). The Diploma consists of 30 weeks of stage placements in Clinical, Community, and Management rotations. Before acceptance into the program, students will be required to complete courses in clinical nutrition, and certain required courses in preparation for Stage; and to demonstrate a basic level of French competency. This preparation may be done during the Ph.D. program, or in a qualifying year after the Ph.D. On completion, students will meet OPDQ credits and professional practice requirements for licensure as a registered dietitian.

The Graduate Diploma is open to students who have completed a graduate degree with the School of Human Nutrition including NUTR 603 Credentialing in Dietetics..

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
NUTR 612	Graduate Professional Practice 2 Management.	8
NUTR 613	Graduate Professional Practice 3 Clinical Nutrition.	7
NUTR 614	Graduate Professional Practice 4 Community Nutrition.	8
NUTR 615	Graduate Professional Practice 5 Clinical Nutrition.	7

Agricultural Economics (Thesis) (M.Sc.) (45 credits)

Offered by: Agricultural Economics (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

Graduate students receive rigorous training in economic theory, institutional economics, and quantitative methods, with a focus on applying economic concepts and tools to identify, define, analyze, and solve economic problems in the agri-food sector and the environment. The ideal prior preparation is an undergraduate degree in Agricultural Economics or Economics, including undergraduate courses in intermediate economic theory (micro and macro), calculus, algebra, statistics, and econometrics.

Attention is given to analytical skills in the broad areas of agricultural and environmental economics. Students may specialize, by way of their research program, in agribusiness, resource economics, development, finance, marketing, trade, policy, and environmental economics. The program is intended to prepare graduates for rewarding careers in research, analysis, and decision-making in academia, private, NGO, and government sectors.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
AGEC 691	M.Sc. Thesis 1.	3
AGEC 692	M.Sc. Thesis 2.	3
AGEC 693	M.Sc. Thesis 3.	6
AGEC 694	M.Sc. Thesis 4.	6
AGEC 695	M.Sc. Thesis 5.	6

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
AGEC 690	Seminar in Agricultural Economics.	3

Complementary Courses (18 credits)

6 credits, two theory courses chosen from:

Expand allContract all

Course	Title	Credits
ECON 610	Microeconomic Theory 1.	3
ECON 620	Macroeconomic Theory 1.	3

or a theory course, at the 500 level or higher, approved by the Graduate Program Director.

At least 3 credits of quantitative methods course chosen from:

Expand allContract all

Course	Title	Credits
ECON 665	Quantitative Methods.	3

or a quantitative course, at the 500 level or higher, approved by the Graduate Program Director.

A minimum of 3 credits from the following:

Expand allContract all

Course	Title	Credits
AGEC 685	Selected Topics in Agricultural Economics.	3

Additional Complementary Courses: To complete the 45 credit program requirement from courses in your field or thesis area at the 500 level or higher in consultation with the Agricultural Economics Adviser.

Entomology (Thesis) (M.Sc.) (45 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Entomology is a thesis program of 45 credits. The program involves research primarily within the discipline of entomology but also across multiple disciplines of basic and applied environmental sciences, that advances both theory and applied management of natural resources. Specialties within the program include terrestrial arthropod ecology, physiology, zoogeography, diversity, and systematics.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
NRSC 691	M.Sc. Thesis Research 1.	12
NRSC 692	M.Sc. Thesis Research 2.	12
NRSC 693	M.Sc. Thesis Research 3.	12

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
NRSC 643	M.Sc. Proposal Seminar.	1
NRSC 644	M.Sc. Update Seminar.	1
NRSC 651	M.Sc. Final Seminar.	1

Complementary Courses (6 credits)

Two 3-credit courses at the 500, 600, or 700 level; normally one of these will be a course in statistics.

Microbiology (Thesis) (M.Sc.) (45 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Microbiology is a thesis program of 45 credits. The program involves research within, and often across, multiple disciplines of basic and applied environmental sciences that advances our fundamental knowledge about microorganisms as well as leads to improved efficiencies of our managed ecosystems. Specialties within the program range from the study of microbial ecology and diversity in natural, human-induced and extreme environments, molecular genetics, bioinformatics, and bacterial pathogens.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
NRSC 691	M.Sc. Thesis Research 1.	12
NRSC 692	M.Sc. Thesis Research 2.	12
NRSC 693	M.Sc. Thesis Research 3.	12

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
NRSC 643	M.Sc. Proposal Seminar.	1
NRSC 644	M.Sc. Update Seminar.	1
NRSC 651	M.Sc. Final Seminar.	1

Complementary Courses (6 credits)

Two 3-credit 500-, 600-, or 700-level courses; normally one of these will be a course in statistics.

Renewable Resources (Thesis) (M.Sc.) (45 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Renewable Resources is a thesis program of 45 credits. The program involves research within, and often across, multiple disciplines of basic and applied environmental sciences that advances both theory and applied management of natural resources. Specialties within the program include environmental and ecological economics, environmental health and toxicology, forest ecology, fish and fisheries biology, landscape ecology, limnology, micrometeorology, soil science, and wildlife biology.

Thesis Courses (36 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NRSC 691	M.Sc. Thesis Research 1.	12
NRSC 692	M.Sc. Thesis Research 2.	12
NRSC 693	M.Sc. Thesis Research 3.	12

Required Courses (3 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NRSC 643	M.Sc. Proposal Seminar.	1
NRSC 644	M.Sc. Update Seminar.	1
NRSC 651	M.Sc. Final Seminar.	1

Complementary Courses (6 credits)

Two 3-credit courses at the 500 level or higher recommended by the supervisory committee; one of which must be in quantitative methods/techniques.

Renewable Resources (Thesis): Neotropical Environment (M.Sc.) (45 credits)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Masters or PhD students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favors interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Whether applying to a Master or a PhD, students are expected to meet all the degree.

Thesis Courses (33 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NRSC 691	M.Sc. Thesis Research 1.	12
NRSC 692	M.Sc. Thesis Research 2.	12
NRSC 694	M.Sc. Thesis Research 4.	9

Required Courses (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
NRSC 643	M.Sc. Proposal Seminar.	1
NRSC 644	M.Sc. Update Seminar.	1
NRSC 651	M.Sc. Final Seminar.	1

Note: Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Entomology (Ph.D.)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Entomology is a program that involves research primarily within the discipline of entomology but also across multiple disciplines of basic and applied environmental sciences, that advances both theory and applied management of natural resources. Specialties within the program include terrestrial arthropod ecology, physiology, zoogeography, diversity, and systematics.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
NRSC 701	Ph.D. Comprehensive Examination.	0
NRSC 751	PhD Research Proposal.	0
NRSC 752	Teaching Experience.	0

NRSC 753	PhD Research Progress Report.	0
NRSC 754	PhD Final Research Report.	0

Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Microbiology (Ph.D.)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Microbiology involves research within, and often across, multiple disciplines of basic and applied environmental sciences that advances our fundamental knowledge about microorganisms as well as leads to improved efficiencies of our managed ecosystems. Specialties within the program range from the study of microbial ecology and diversity in natural, human-induced and extreme environments, molecular genetics, bioinformatics, and bacterial pathogens.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all		
Course	Title	Credits
NRSC 701	Ph.D. Comprehensive Examination.	0
NRSC 751	PhD Research Proposal.	0
NRSC 752	Teaching Experience.	0
NRSC 753	PhD Research Progress Report.	0
NRSC 754	PhD Final Research Report.	0

Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Renewable Resources (Ph.D.)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Renewable Resources is a Resources program that involves research within, and often across, multiple disciplines of basic and applied environmental sciences that advances both theory and applied management of natural resources. Specialties within the program include environmental and ecological economics, environmental health and toxicology, forest ecology, fish and fisheries biology, landscape ecology, limnology, micrometeorology, soil science, and wildlife biology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
NRSC 701	Ph.D. Comprehensive Examination.	0
NRSC 751	PhD Research Proposal.	0
NRSC 752	Teaching Experience.	0
NRSC 753	PhD Research Progress Report.	0
NRSC 754	PhD Final Research Report.	0

Coursework

Course requirements are specified by the staff in the discipline, but are flexible and depend largely on the student's background, immediate interests, and ultimate objectives.

Renewable Resources: Neotropical Environment (Ph.D.)

Offered by: Natural Resource Sciences (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Renewable Resources; Neotropical Environment is a research-based program offered in association with several University departments, the McGill School of Environment, and the Smithsonian Tropical Research Institute (STRI-Panama). The program involves research on environmental issues relevant to the Neotropics and Latin American countries, and it favours interdisciplinary approaches to research and learning, and tropical environmental issues and the skills relevant to working in the tropics.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
NRSC 701	Ph.D. Comprehensive Examination.	0
NRSC 751	PhD Research Proposal.	0
NRSC 752	Teaching Experience.	0
NRSC 753	PhD Research Progress Report.	0
NRSC 754	PhD Final Research Report.	0

Note: Participation in the MSE-Panama Symposium presentation in Montreal is required.

Elective Courses

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Parasitology (Thesis) (M.Sc.) (45 credits)

Offered by: Parasitology (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Parasitology focuses on the phenomenon of parasitism in humans, livestock, and other animals, and the control of parasitic diseases, including the interface of parasitism/immunity/nutrition in the context of the host-parasite. The research thesis is under the direction of a supervisor.

Thesis Courses (35 credits)

Expand allContract all

Course	Title	Credits
PARA 687	Thesis Research 1.	11
PARA 688	Thesis Research 2.	11
PARA 689	Thesis Research 3.	13

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
PARA 606	Parasitology Seminar.	2
PARA 607	Parasitology Research Seminar.	2
PARA 635	Cell Biology and Infection.	3
PARA 655	Host-Parasite Interactions.	3

Other course work in related subjects may be required, depending upon the candidate's background and research orientation.

Parasitology (Ph.D.)

Offered by: Parasitology (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
PARA 635	Cell Biology and Infection.	3
PARA 655	Host-Parasite Interactions.	3
PARA 701	PhD Comprehensive Exam.	0
PARA 710	Parasitology Ph.D. Seminar 1.	2
PARA 711	Parasitology Ph.D. Seminar 2.	2

* Note: In the first year of the doctoral program, the candidates must successfully complete a written thesis proposal and make an oral presentation on their proposed research to fulfil PARA 700, the comprehensive component.

Depending upon the candidate's background, other course work may be required.

Parasitology: Bioinformatics (Ph.D.)

Offered by: Parasitology (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show

familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PARA 635	Cell Biology and Infection.	3
PARA 655	Host-Parasite Interactions.	3
PARA 701	PhD Comprehensive Exam.	0
PARA 710	Parasitology Ph.D. Seminar 1.	2
PARA 711	Parasitology Ph.D. Seminar 2.	2

Complementary Courses (6 credits)

6 credits chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee.

Plant Science (Thesis) (M.Sc.) (45 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (39 credits)

Expand allContract all

Course	Title	Credits
PLNT 664	M.Sc. Thesis 1.	12
PLNT 665	M.Sc. Thesis 2.	12
PLNT 666	M.Sc. Thesis 3.	15

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Complementary Courses (6 credits)

Two graduate-level courses

Additional courses may be required at the discretion of the candidate's supervisory committee.

Plant Science (Thesis): Bioinformatics (M.Sc.) (45 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
PLNT 664	M.Sc. Thesis 1.	12
PLNT 665	M.Sc. Thesis 2.	12
PLNT 667	MSc Thesis 3A.	12

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PLNT 691	Research Horizons in Plant Science 2.	0

Complementary Courses (6 credits)

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's advisory committee.

Chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 511	Bioinformatics for Genomics.	3
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3

Course	Title	Credits
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

Plant Science (Thesis): Environment (M.Sc.) (45 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

This program is currently not offered.

The M.Sc. in Plant Science (thesis) Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical.) interact to define environment and sustainability issues.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
PLNT 664	M.Sc. Thesis 1.	12
PLNT 665	M.Sc. Thesis 2.	12
PLNT 667	MSc Thesis 3A.	12

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (6 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

or other graduate course recommended by the Advisory Committee and approved by the Environment Option Committee.

Additional courses may be required at the discretion of the candidate's Supervisory Committee.

Plant Science (Thesis): Neotropical Environment (M.Sc.) (45 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

Candidates must participate in the STRI seminar series when in residence in Panama, and in the MSE-Panama Symposium Presentation in Montreal.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
PLNT 664	M.Sc. Thesis 1.	12
PLNT 665	M.Sc. Thesis 2.	12
PLNT 667	MSc Thesis 3A.	12

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3

Elective Courses (3 credits)

3 credits at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Additional courses may be required at the discretion of the candidate's supervisory committee.

Plant Science (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

N.B. this program is under revision. Please contact the department for information.

Plant Science (Ph.D.)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

Students who have taken their M.Sc. degree at McGill University will be required to spend one term in study at another research institution.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses

* Must be taken within one year of registering

Expand allContract all

Course	Title	Credits
PLNT 701	Doctoral Comprehensive Examination.	0

Complementary Courses

Any courses at the 500 or 600 level deemed necessary for the chosen area of specialization.

Plant Science: Bioinformatics (Ph.D.)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PLNT 701	Doctoral Comprehensive Examination. ¹	0

¹ Must be taken within one year of registering.

Complementary Courses (6 credits)

Two courses to be chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 511	Bioinformatics for Genomics.	3
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

Additional courses at the 500 or 600 level may be required at the discretion of the candidate's advisory committee.

Plant Science: Environment (Ph.D.)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Ph.D. in Plant Science Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how

various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Students who have taken their M.Sc. degree at McGill University will be required to spend one term in study at another research institution.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3
PLNT 701	Doctoral Comprehensive Examination. ¹	0

¹ Must be taken within the first year of registering

Complementary Courses (6 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Plant Science: Neotropical Environment (Ph.D.)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Degree: Doctor of Philosophy

Program Description

Students who have taken their M.Sc. degree at McGill University will be required to spend one term in study at another research institution.

The required thesis for this Ph.D. degree must display original scholarship expressed in proper literate style and must be a distinct contribution to knowledge.

Candidates must participate in the STRI seminar series when in residence in Panama, and in the MSE-Panama Symposium Presentation in Montreal.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Invitational Seminar

Expand allContract all

Course	Title	Credits
PLNT 690	Research Horizons in Plant Science 1.	0

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
PLNT 701	Doctoral Comprehensive Examination. ¹	0

¹ Must be taken within one year of registering.

Elective Courses (3 credits)

3 credits at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Bioinformatics (Gr. Cert.) (15 credits)

Offered by: Plant Science (Faculty of Agricultural and Environmental Sciences)

Program credit weight: 15

This program is currently not offered.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
BINF 511	Bioinformatics for Genomics.	3
BINF 660	Advances in Bioinformatics.	3
BTEC 555	Structural Bioinformatics.	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
BMDE 652	Bioinformatics: Proteomics.	3
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
HGEN 663	Beyond the Human Genome.	3

Anthropology (Thesis) (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Anthropology (Thesis) provides advanced-level training in socio-cultural anthropology and archaeology. The program culminates in the preparation of a thesis, which is written under the direction of a supervisory committee, and which is expected to report on original research of publishable quality.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3
ANTH 609D2	Proseminar in Anthropology.	3
ANTH 699	M.A. Thesis.	21

Complementary Courses (12 credits)

12 credits to be chosen from among 500-level or above departmental course offerings and to be determined by the student's area of study.

Anthropology (Thesis): Development Studies (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Development Studies Option is a cross-disciplinary M.A. program offered as an option within existing M.A. programs in the departments of Geography, History, Political Science, Anthropology, Economics, and Sociology.

Required Courses (36 credits)

Expand allContract all

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3
ANTH 609D2	Proseminar in Anthropology.	3
ANTH 699	M.A. Thesis.	21
INTD 657	Development Studies Seminar.	3

Complementary Courses (9 credits)

9 credits to be chosen from among 500-level or above departmental course offerings related to Development Studies and in consultation with the program advisor.

Anthropology (Thesis): Environment (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

The M.A. in Anthropology (thesis): Environment Option is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Required Courses (36 credits)

Expand allContract all

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3

ANTH 609D2	Proseminar in Anthropology.	3	ANTH 699	M.A. Thesis.	21
ANTH 699	M.A. Thesis.	21	WMST 601	Feminist Theories and Methods.	3
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3			

Complementary Courses (9 credits)

3 credits from any 500 level or above departmental course offerings related to Environment, as approved by the advisory committee.

3 credits from:

Expand all		Contract all	Credits
Course	Title		
ENVR 610	Foundations of Environmental Policy.	3	
ENVR 614	Mobilizing Research for Sustainability.	3	

3 credits from:

Expand all		Contract all	Credits
Course	Title		
ENVR 585	Readings in Environment 2.	3	
ENVR 630	Civilization and Environment.	3	
ENVR 680	Topics in Environment 4.	3	

or 3 credits to be chosen from among 500 level or above departmental course offerings related to Environment, recommended by the Advisory Committee, and approved by the Environment Option Committee.

Anthropology (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

This is an interdisciplinary program for students who meet the degree requirements in Anthropology, who wish to focus on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

Required Courses (36 credits)

Expand all		Contract all	Credits
Course	Title		
ANTH 602	Theory 1.	3	
ANTH 609D1	Proseminar in Anthropology.	3	
ANTH 609D2	Proseminar in Anthropology.	3	
ANTH 603	Theory 2.	3	

Complementary Courses (9 credits)

9 credits of coursework related to Gender and Women's Studies at the 500 or 600 level, at least 6 of which must be taken within the Anthropology Department, and in consultation with the program advisor.

Medical Anthropology (Thesis) (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is open to students with backgrounds in the social sciences, the medical professions, or the medical sciences. The M.A. degree is awarded by the Anthropology Department and admission is granted by a joint admissions committee made up of representatives from Anthropology and the Department of Social Studies of Medicine.

Required Courses (36 credits)

Expand all		Contract all	Credits
Course	Title		
ANTH 602	Theory 1.	3	
ANTH 603	Theory 2.	3	
ANTH 609D1	Proseminar in Anthropology.	3	
ANTH 609D2	Proseminar in Anthropology.	3	
ANTH 615	Seminar in Medical Anthropology.	3	
ANTH 699	M.A. Thesis.	21	

Complementary Courses (9 credits)

9 credits to be chosen from among 500-level or above departmental course offerings related to Medical Anthropology and in consultation with the program adviser.

Anthropology (Non-Thesis) (M.A.) (45 credits)

Offered by: Anthropology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The MA in Anthropology; Non-Thesis provides an intensive, course-based training in the fundamentals of anthropological theory and methodology over three semesters. The program is designed as a rigorous and comprehensive preparation for subsequent specialization

in sociocultural anthropology, archaeology, or medical anthropology at the PhD level.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3
ANTH 609D2	Proseminar in Anthropology.	3
ANTH 690	Research Paper 1.	6
ANTH 691	Research Paper 2.	6
ANTH 692	Research Paper 3.	6

Complementary Courses (15 credits)

15 credits to be chosen from among 500-level or above departmental course offerings and to be determined by the student's area of study.

Anthropology (Ph.D.)

Offered by: Anthropology (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy (Ph.D.) Anthropology program focuses on the discipline of anthropology (including socio-cultural anthropology, archaeology and medical anthropology research). The program includes a PhD dissertation research project.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3
ANTH 609D2	Proseminar in Anthropology.	3
ANTH 701	PhD Comprehensive Examination.	0
ANTH 702	PhD Proposal Defence.	0

Note: ANTH 602 Theory 1. and ANTH 603 Theory 2. should be taken in the first year of the program.

Complementary Courses (12 credits)

12 credits at the 500 and 600 level selected from courses within and/or outside the Department relevant to the student's research area in consultation with the student's supervisor and advisory committee.

A maximum of 6 credits can be taken from other programs with approval of the supervisor and GPD.

Elective Courses (0-24 credits)

A maximum of 24 credits at the 500 level or higher can be taken inside or outside the Department (e.g., language training, methodological training, history or regional studies courses).

Language Requirement

A language examination, normally French, must be passed before an oral examination of the research proposal may be scheduled. Francophone students can satisfy the language requirement by demonstrating competency in English. The purpose of the language requirement is to ensure that the student has access to anthropological literature in at least two languages. Under special circumstances, a language other than English or French may be substituted, provided that there is sufficient anthropological literature on the student's research topic in that language.

The Ethics application and the language exam must be submitted before the proposal defence. They can be submitted at any point during PhD2 and PhD3 (before the date of the proposal defence is chosen).

Anthropology: Neotropical Environment (Ph.D.)

Offered by: Anthropology (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

All new Neotropical Environment students will be encouraged to spend the month of August (prior to September admission) in Panama to take their first core course and familiarize themselves with the country.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (18 credits)

If admitted to Ph.D. 2.

Note: To ensure that students understand prior research, they must define three subfields that intersect with the thesis topic.

Expand allContract all

Course	Title	Credits
ANTH 602	Theory 1.	3
ANTH 603	Theory 2.	3
ANTH 609D1	Proseminar in Anthropology.	3
ANTH 609D2	Proseminar in Anthropology.	3
ANTH 701	PhD Comprehensive Examination.	0
ANTH 702	PhD Proposal Defence.	0
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3

Complementary Courses (6 credits)

6 credits, at the 500, 600, or 700 level, selected from courses within and/or outside the department relevant to the student's research area and in consultation with the student's supervisor and advisory committee. At least 3 of the 6 credits must also be pre-approved by the Neotropical Environment Director.

Elective Courses (0-24 credits)

A maximum of 24 credits at the 500 level or higher can be taken inside or outside the Department (e.g., language training, methodological training, history or regional studies courses).

Language Requirement

A language examination, normally French, must be passed before an oral examination of the research proposal may be scheduled. Francophone students can satisfy the language requirement by demonstrating competency in English. The purpose of the language requirement is to ensure that the student has access to anthropological literature in at least two languages. Under special circumstances, a language other than English or French may be substituted, provided that there is sufficient anthropological literature on the student's research topic in that language.

The Ethics application and the language exam must be submitted before the proposal defence. They can be submitted at any point during PhD2 and PhD3 (before the date of the proposal defence is chosen.)

If admitted to Ph.D. 1.

In addition to the above requirements, 15 credits from courses at the 500 level or higher within and/or outside of the Department relevant to the student's research area in consultation with the student's supervisor and/or PhD committee.

Art History (Thesis) (M.A.) (45 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Art History with the thesis option requires the completion of 45 credits of coursework.

The program is designed to be completed in four semesters, but may be completed in three semesters. There is a time limit to complete the M.A. degree in three years (full-time) or five years (part-time).

For further details on thesis preparation and submission consult www.mcgill.ca/gps/thesis/thesis-guidelines.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
ARTH 600	Advanced Professional Seminar.	3
ARTH 698	Thesis Research 1.	12
ARTH 699	Thesis Research 2.	12

Complementary Courses (18 credits)

Chosen from the following:

Expand allContract all

Course	Title	Credits
ARTH 501	Advanced Topics in Art History and Visual Culture.	3
ARTH 502	Advanced Topics in Art and Architectural History.	3
ARTH 630	Directed Reading 1.	3
ARTH 645	Medieval Art and Archaeology.	3
ARTH 646	Topics: Chinese Visual Culture.	3
ARTH 647	Topics: Renaissance Art and Architecture 1.	3
ARTH 653	Topics: Early Modern Visual Culture 1.	3
ARTH 654	Topics: Early Modern Visual Culture 2.	3
ARTH 660	Contemporary Art and Criticism 1.	3
ARTH 661	Contemporary Art and Criticism 2.	3
ARTH 675	Topics: 19th - Century Art and Architecture 1.	3
ARTH 678	Topics: 19th - Century Art and Architecture 2.	3
ARTH 714	Directed Reading 2.	3
ARTH 724	Art Criticism 2.	3
ARTH 725	Methods in Art History 1.	3
ARTH 731	Current Problems in Art History 2.	3

Art History (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Art History; Thesis option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Art History and who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The final thesis must be on a topic centrally relating to issues of gender and/or women's studies.

For further details on thesis preparation and submission consult: www.mcgill.ca/gps/thesis/thesis-guidelines.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
ARTH 600	Advanced Professional Seminar.	3
ARTH 698	Thesis Research 1.	12
ARTH 699	Thesis Research 2.	12
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (15 credits)

15 credits at the 500 level or higher to be chosen in consultation with a supervisor.

3 credits of complementary coursework must be chosen from one of the courses below:

Expand allContract all

Course	Title	Credits
COMS 633	Feminist Media Studies.	3
WMST 602	Feminist Research Symposium.	3

Or a 3-credit, option-approved course at the 500, 600, or 700 level, taught outside WMST (e.g., an option-approved Art History course, or an option-approved course taught in another discipline).

3 credits of the 15 credits of complementary coursework may be taken at another university in Montreal.

Art History (Ph.D.)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Art History offers rigorous methodological and theoretical training from antiquity to the contemporary moment that is international in scope. The program focuses on advanced skills in research, literature review, original thinking, and academic writing.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the

thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ARTH 600	Advanced Professional Seminar.	3
ARTH 701	Ph.D. Comprehensive Examination.	0

Complementary Courses (12 credits)

Four courses chosen from the following:

Expand allContract all

Course	Title	Credits
ARTH 501	Advanced Topics in Art History and Visual Culture.	3
ARTH 502	Advanced Topics in Art and Architectural History.	3
ARTH 714	Directed Reading 2.	3
ARTH 723	Art Criticism 1.	3
ARTH 724	Art Criticism 2.	3
ARTH 725	Methods in Art History 1.	3
ARTH 731	Current Problems in Art History 2.	3

or from the 600-level complementary courses listed for the M.A.

Alternatively, up to 3 of the 12 credits may be from other disciplines, as approved by the Department.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

Art History: Gender and Women's Studies (Ph.D.)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

Students should refer to the Departmental website for information about Ph.D. residency and timing. The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Art History who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ARTH 600	Advanced Professional Seminar.	3
ARTH 701	Ph.D. Comprehensive Examination.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (9 credits)

An additional 9 credits in Art History, of which 3 credits must be a graduate option-approved 500- or 600-level ARTH course.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

Communication Studies (Thesis) (M.A.) (45 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Communication Studies offers advanced training in the critical, historical, and theoretical analysis of communication in culture, communication technology, and communication policy. M.A. students pursue coursework and write an M.A. thesis that reflects sustained analysis of a topic in Communication Studies. The M.A. degree is academic in character, and does not include professional training in media production.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
COMS 692	M.A. Thesis Preparation 1.	6
COMS 693	M.A. Thesis Preparation 2.	6

COMS 694	M.A. Thesis Preparation 3.	6
COMS 695	M.A. Thesis Preparation 4.	6

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
COMS 616	Staff-Student Colloquium 1.	3

Complementary Courses (18 credits)

18 credits of 500-level or higher COMS courses; two courses outside COMS require approval of the Graduate Program Director.

Communication Studies (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The thesis must be on a topic centrally related to gender and/or women's studies.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
COMS 692	M.A. Thesis Preparation 1.	6
COMS 693	M.A. Thesis Preparation 2.	6
COMS 694	M.A. Thesis Preparation 3.	6
COMS 695	M.A. Thesis Preparation 4.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
COMS 616	Staff-Student Colloquium 1.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (15 credits)

All complementary courses must be at the 500 level or higher in Communication Studies.

3 credits of complementary coursework must be in Gender and Women's Studies

[Expand all](#)
[Contract all](#)

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

OR, one 3-credit course on gender/women's issues at the 500, 600, or 700 level (may be in the Department or outside).

Communication Studies (Ph.D.)

Offered by: Art History & Communications

Degree: Doctor of Philosophy

Program Description

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

[Expand all](#)
[Contract all](#)

Course	Title	Credits
COMS 616	Staff-Student Colloquium 1.	3
COMS 702	Comprehensive Examination.	0
COMS 703	Dissertation Proposal.	0

Complementary Courses (15 credits)

15 credits of 500-, 600-, or 700-level COMS courses; one course outside COMS requires approval of the Graduate Program Director.

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

Communication Studies: Gender and Women's Studies (Ph.D.)

Offered by: Art History & Communications (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

Candidates with an M.A. degree will be admitted at the Ph.D. 2 level, thereby gaining credit for one year of resident study. When admitted at Ph.D. 2 level, two years of residence are required for the doctoral degree.

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Communication Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's doctoral thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

[Expand all](#)
[Contract all](#)

Course	Title	Credits
COMS 616	Staff-Student Colloquium 1.	3
COMS 702	Comprehensive Examination.	0
COMS 703	Dissertation Proposal.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (9 credits)

9 credits of 500-, 600-, or 700-level courses, which must include one 3-credit course on gender/women's issues at the graduate level (may be in the Department or outside).

Language Requirement

Ph.D. students must demonstrate proficiency in one or more languages other than English that is related to their dissertation research, as determined by their supervisor. Certain areas of study may require more extensive language training, which will be determined by individual supervisors. In cases where dissertation research does not

require non-English proficiency, Ph.D. students must demonstrate proficiency in French.

East Asian Studies (Thesis) (Ad Hoc) (M.A.) (45 credits)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in East Asian Studies is an Ad Hoc program that focuses on the interdisciplinary and disciplinary approaches to studying cultures, literatures, media, arts, religions, and gender and sexuality in East Asia and beyond.

Program Requirements

The Department only offers a thesis option. The M.A. program with thesis includes:

1. four 3-credit graduate courses (12 credits);
2. one graduate 3-credit seminar in theory/methodology (3 credits);
3. one graduate 6-credit seminar or two graduate 3-credit seminars (6 credits); and
4. thesis (24 credits).

Language Courses

1. A maximum of 6 credits of language courses at the 500 level or in a classical Asian language may be counted toward course requirements.
2. Students must have fourth-level language equivalency by the completion of their M.A. program.

East Asian Studies (Ad Hoc) (Ph.D.)

Offered by: East Asian Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Graduate Studies Committee will assign an advisory committee to advise the student and specify the student's program of study.

Exceptional students with appropriate background at the undergraduate level may be admitted directly into the Ph.D. program.

Students must complete at least 24 course credits, with a grade point average of 3.5 or better; this coursework must be chosen to identify three distinct fields for the Comprehensive Evaluation. Students may take up to two 3-credit courses or one 6-credit course in another department with the approval of the Graduate Program Director.

There are four requirements for obtaining the doctoral degree:

1. Coursework – 24 credits at the 600 or 700 level with a grade point average of 3.5 or better. On the basis of this coursework, the student should identify three distinct fields for the Comprehensive Evaluation. Students may take up to 6 credits in another department with the approval of the Graduate Program Director.

2. Language – Candidates will be required to demonstrate reading knowledge of a second Asian language, which may include either modern or literary (classical) language, in addition to the primary Asian language of their research. Candidates will also be expected to demonstrate reading knowledge of both French and English.
3. Ph.D. Comprehensive Evaluation – The student is required to pass the Comprehensive Evaluation within one year after completing coursework. Exceptions have to be approved by the Graduate Program Director.
4. Doctoral Dissertation – A thesis proposal (15-25 pages) should be submitted within six months after successful completion of the Ph.D. Comprehensive Evaluation, after consultation with the Graduate Program Director and the thesis supervisor. Before submission of the dissertation, candidates are expected to spend time in Asia researching their project.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Economics (Thesis) (M.A.) (45 credits)

Offered by: Economics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Economics (Thesis) offers training in economics. It focuses on economic theory, empirical techniques, and policy applications, including microeconomics, macroeconomics, and econometrics.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
ECON 650	Research 1.	3
ECON 651	Research 2.	3
ECON 652	Research 3.	3
ECON 670	Thesis 1.	6
ECON 671	Thesis 2.	6
ECON 672	Thesis 3.	6

Complementary Courses (18 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
ECON 662	Econometrics 1.	3
ECON 663	Econometrics 2.	3
ECON 709	Microeconomic Theory 3.	3
ECON 711	Microeconomic Theory 2.	3
ECON 712	Macroeconomic Theory 1.	3
ECON 713	Macroeconomic Theory 2.	3

Note: Choose either ECON 662, ECON 663, ECON 709, ECON 711; or ECON 662, ECON 663, ECON 712, ECON 713; or ECON 709, ECON 711, ECON 712, ECON 713.

6 credits at the 500 level or higher, as determined by the student's area of study and in consultation with the MA Director.

Economics (Non-Thesis) (M.A.) (45 credits)

Offered by: Economics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Economics; Non-Thesis program provides graduate training in theoretical and applied economics, and in econometric methods.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
ECON 650	Research 1.	3
ECON 651	Research 2.	3
ECON 680	M.A. Report 1.	3
ECON 681	M.A. Report 2.	3
ECON 682	M.A. Report 3.	3
ECON 683	M.A. Report 4.	3

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
ECON 610	Microeconomic Theory 1.	3
ECON 620	Macroeconomic Theory 1.	3
ECON 654	Research Methods in Economics.	3
ECON 661	Applied Time-Series and Forecasting.	3
ECON 664	Applied Cross-Sectional Methods.	3
ECON 665	Quantitative Methods.	3

Complementary Courses (9 credits)

9 credits at the 500, 600, or 700 level, as determined by the student's area of study, in consultation with the supervisor [excluding ECON 662, ECON 662D1, ECON 662D2, and ECON 663].

Economics (Non-Thesis): Development Studies (M.A.) (45 credits)

Offered by: Economics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Economics; Non-Thesis - Development Studies program provides graduate training in theoretical and applied economics, and in econometric methods. The focus of the research paper will be on international development issues.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
ECON 650	Research 1.	3
ECON 651	Research 2.	3
ECON 680	M.A. Report 1.	3
ECON 681	M.A. Report 2.	3
ECON 682	M.A. Report 3.	3
ECON 683	M.A. Report 4.	3

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
ECON 610	Microeconomic Theory 1.	3
ECON 620	Macroeconomic Theory 1.	3
ECON 634	Economic Development 3.	3
ECON 661	Applied Time-Series and Forecasting.	3
ECON 664	Applied Cross-Sectional Methods.	3
ECON 665	Quantitative Methods.	3
ECON 734	Economic Development 4.	3
INTD 657	Development Studies Seminar.	3

Complementary Courses (3 credits)

3 credits at the 500, 600, or 700 level, related to development studies [excluding ECON 662, ECON 662D1, ECON 662D2, and ECON 663].

Economics (Non-Thesis): Population Dynamics (M.A.) (45 credits)

Offered by: Economics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Population Dynamics Option (PDO) is open to M.A. (non-thesis) students in Economics specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and a course in microeconomic methods relevant for population studies. In addition, students will take one complementary course in Economics, which focuses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research topics must be related to population dynamics and approved by the PDO coordinating committee.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
ECON 650	Research 1.	3
ECON 651	Research 2.	3
ECON 680	M.A. Report 1.	3
ECON 681	M.A. Report 2.	3
ECON 682	M.A. Report 3.	3
ECON 683	M.A. Report 4.	3

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
ECON 610	Microeconomic Theory 1.	3
ECON 620	Macroeconomic Theory 1.	3
ECON 661	Applied Time-Series and Forecasting.	3
ECON 664	Applied Cross-Sectional Methods.	3
ECON 665	Quantitative Methods.	3
ECON 742	Empirical Microeconomics.	3
SOCI 626	Demographic Methods.	3

Complementary Courses (6 credits)

3 credits related to population dynamics course from the following:

Expand allContract all

Course	Title	Credits
ECON 634	Economic Development 3.	3
ECON 641	Labour Economics.	3
ECON 734	Economic Development 4.	3
ECON 744	Health Economics.	3
SOCI 502	Sociology of Childbearing	3

3 credits from the following (a course in the same/approved field, chosen in consultation with the student's supervisor):

Course	Title	Credits
ECON 510	Experimental Economics.	3
ECON 525	Project Analysis.	3
ECON 546	Game Theory.	3
ECON 624	International Economics.	3
ECON 625	Economics of Natural Resources.	3
ECON 634	Economic Development 3.	3
ECON 637	Industrial Organization and Regulation.	3
ECON 641	Labour Economics.	3
ECON 647	Applied Computational Economics.	3
ECON 654	Research Methods in Economics.	3
ECON 688	Seminar on Social Statistics.	3
ECON 706	Selected Topics.	3
ECON 710	Selected Topics in Economics.	3
ECON 724	International Economics.	3
ECON 726	Topics in Environmental Economics.	3
ECON 734	Economic Development 4.	3
ECON 737	Industrial Organization and Regulation Seminar.	3
ECON 741	Advanced Labour Economics.	3
ECON 744	Health Economics.	3
ECON 761	Econometrics: Time Series Analysis.	3
ECON 763	Financial Econometrics.	3
ECON 765	Models for Financial Economics.	3

Courses may not be double counted for both the Population Dynamics complementary course and other complementary courses.

Economics (Ph.D.)

Offered by: Economics (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Economics focuses on microeconomics, macroeconomics and econometrics. Specialization in three fields of economics is offered.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate

ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (20 credits)

Expand allContract all

Course	Title	Credits
ECON 662	Econometrics 1.	3
ECON 663	Econometrics 2.	3
ECON 701	Ph.D. Comprehensive Examination 1.	0
ECON 702	Ph.D. Comprehensive Examination 2.	0
ECON 703	Ph.D. Field 1 Synthesis.	0
ECON 704	Ph.D. Field 2 Synthesis.	0
ECON 709	Microeconomic Theory 3.	3
ECON 711	Microeconomic Theory 2.	3
ECON 712	Macroeconomic Theory 1.	3
ECON 713	Macroeconomic Theory 2.	3
ECON 770	PhD Research Seminar 1.	1
ECON 771	PhD Research Seminar 2.	1

Elective Courses (18 credits)

18 credits of elective courses at the 600 level or higher in consultation with the Graduate Program Director.

English (Thesis) (M.A.) (45 credits)

Offered by: English (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in English; Thesis is an academic program in literary and cultural studies. The program focuses on the interpretation of texts in English from the medieval period to the contemporary moment, and in critical theory and diverse methodologies in literary, cultural, theatre, and performance studies. The program may be completed in three or four semesters (2 years).

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
ENGL 695	M.A. Thesis Preparation.	3
ENGL 698	M.A. Thesis 2.	21

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENGL 694	Graduate Research Seminar.	6

Complementary Courses (15 credits)

15 credits of Departmental seminar courses at the 500, 600, or 700 level.

English (Non-Thesis) (M.A.) (48 credits)

Offered by: English (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 48

Program Description

The Master of Arts in English; Non-Thesis is an academic program in literary and cultural studies. The program focuses on the interpretation of texts in English from the medieval period to the contemporary moment, and in critical theory and diverse methodologies in literary, cultural, theatre, and performance studies. The program may be completed in three or four semesters (2 years).

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
ENGL 681	M.A. Research Paper Preparation 1.	3
ENGL 682	M.A. Research Paper Preparation 2.	3
ENGL 683	M.A. Research Paper Preparation 3.	3
ENGL 684	M.A. Research Paper.	9

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENGL 693	Research Methods.	3
ENGL 694	Graduate Research Seminar.	6

Complementary Courses (21 credits)

21 credits of Departmental seminar courses at the 500, 600, or 700 level.

English (Ph.D.)

Offered by: English (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The PhD in English focuses on research topics related to literature, drama and theatre, cultural studies, authorship and publishing, and critical theory.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all		
Course	Title	Credits
ENGL 701	Comprehensive Examination.	0
ENGL 787	Research Seminar 1.	3
ENGL 788	Research Seminar 2.	3
ENGL 798	Dissertation Proposal.	3

Complementary Courses (12 credits)

0-12 credits of departmental seminars at the 500 level or higher.

0-12 credits from the following:

Expand allContract all		
Course	Title	Credits
ENGL 796	Research Project.	6

Plus 6 credits of departmental seminars at the 500 level or higher.

Langue et littérature françaises (avec mémoire) (M.A.) (45 credits)

Offered by: French Language & Literature (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

Le programme de « maîtrise ès arts en langue et littérature Françaises (avec mémoire) » porte sur l'histoire des littératures française et québécoise, les littératures francophones, de même que sur une variété de sujets connexes: genres littéraires, création littéraire, théorie, histoire de la langue, civilisation. Ce programme vise à favoriser l'apprentissage de la recherche et un début de spécialisation grâce à une initiation aux méthodes de la recherche littéraire et à divers travaux de recherche littéraire et à divers travaux de recherche réalisés sous la direction des professeur-e-s du Département. L'étudiant-e peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire. Le programme est offert à temps plein et à temps partiel. La durée des études de maîtrise est normalement de deux ans.

Mémoire (24 crédits)

Expand allContract all

Course	Title	Credits
FREN 699	M.A. Thesis.	24

Cours obligatoires (6 crédits)

Expand allContract all		
Course	Title	Credits
FREN 696	Élaboration projet de mémoire	3
FREN 697	Méthodologie et théorie littéraires.	3

Cours complémentaires (15 crédits)

5 séminaires; un maximum de 6 crédits peuvent être suivis dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

Les séminaires suivants sont fortement recommandés aux étudiants qui ont l'intention de présenter un mémoire d'écriture littéraire.

Expand allContract all

Expand allContract all		
Course	Title	Credits
FREN 609	Atelier de création littéraire.	3
FREN 611	L'expérience littéraire.	3

Langue et littérature françaises (avec mémoire): études sur les femmes et le genre (M.A.) (45 credits)

Offered by: French Language & Literature

Degree: Master of Arts

Program credit weight: 45

Program Description

Le programme de « maîtrise ès arts en langue et littérature françaises (avec mémoire); « étude sur les femmes et le genre » (Gender and Women's Studies), est un programme pluridisciplinaire qui remplit en même temps toutes les exigences du programme de maîtrise avec mémoire du Département des littératures de langue française, de traduction et de création. Comme tel, il porte sur l'histoire des littératures française et québécoise, les littératures francophones, de même que sur une variété de sujets connexes: genres littéraires, création littéraire, théorie, histoire de la langue, civilisation. Il vise à favoriser l'apprentissage de la recherche et un début de spécialisation grâce à une initiation aux méthodes de la recherche littéraire et à divers travaux de recherche réalisés sous la direction des professeur-e-s du Département. L'étudiant-e peut présenter un mémoire de critique littéraire ou un mémoire d'écriture littéraire. Le programme est offert à temps plein et à temps partiel. La durée des études de maîtrise est normalement de deux ans.

Mémoire (24 crédits)

Expand allContract all

Course	Title	Credits
FREN 699	M.A. Thesis.	24

Cours obligatoires (9 crédits)

Expand allContract all

Course	Title	Credits
FREN 696	Élaboration projet de mémoire	3
FREN 697	Méthodologie et théorie littéraires.	3
WMST 601	Feminist Theories and Methods.	3

Cours complémentaires

12 crédits au 500 niveau ou plus.

Six crédits de séminaires au choix parmi les séminaires du Département ou à l'extérieur du Département qui ont été approuvés par l'option.

Six crédits de séminaires au choix, dont un peut être suivi à l'extérieur du Département.

Langue et littérature françaises (sans mémoire) (M.A.) (48 credits)

Offered by: French Language & Literature

Degree: Master of Arts

Program credit weight: 48

Program Description

Le programme de « maîtrise ès arts en langue et littérature françaises (sans mémoire) » porte sur l'histoire des littératures française et québécoise, les littératures francophones, de même que sur une variété de sujets connexes: genres littéraires, création littéraire, théorie, histoire de la langue, civilisation. Ce programme vise à favoriser l'apprentissage de la recherche grâce à une initiation aux méthodes de la recherche littéraire et à divers travaux de recherche réalisés sous la direction des professeur-e-s du Département. Le programme est offert à temps plein et à temps partiel. La durée des études de maîtrise est normalement de deux ans.

Projet de recherche (18 crédits)

Les étudiants complètent le programme de maîtrise en rédigeant trois travaux de recherche.

Expand allContract all

Course	Title	Credits
FREN 698	Master's Seminar.	18

Cours obligatoires (6 crédits)

Expand allContract all

Course	Title	Credits
FREN 600	Travaux dirigés 1.	3
FREN 697	Méthodologie et théorie littéraires.	3

Cours complémentaires (24 crédits)

24 crédits, 8 cours; un maximum de 6 crédits peuvent être suivis dans un autre département de McGill qui offre des cours dans le domaine des Humanités de l'annuaire des Études supérieures et postdoctorales, ou dans une autre université.

Langue et littérature françaises (Ph.D.)

Offered by: French Language & Literature

Degree: Doctor of Philosophy

Program Description

Le programme de « doctorat en langue et littérature françaises » est axé avant tout sur la recherche, c'est-à-dire sur la production d'une thèse qui représente une contribution significative à l'avancement des connaissances. La thèse doit démontrer que l'étudiante.e a reçu une solide formation en critique littéraire, que son savoir, sa maîtrise des documents et d'une méthode lui ouvrent une carrière sérieuse de chercheur.euse et de professeur.e. Il s'agit d'une composition originale, ce qui n'exclut pas le renouvellement d'un sujet déjà traité. Le candidat ou la candidate doit prouver par ce travail qu'il ou elle a acquis une compétence méthodologique suffisante, qu'il ou elle sait délimiter un champ de réflexion, distinguer l'essentiel de l'accessoire, établir et utiliser une bibliographie exhaustive et manier la langue avec justesse. Le programme est conçu pour durer quatre ans.

Thèse

Une thèse de doctorat doit constituer une recherche inédite et représenter un apport distinct au savoir. Elle doit témoigner de la connaissance des travaux antérieurs réalisés dans le domaine et montrer la capacité de planifier et d'accomplir la recherche, d'organiser les résultats et de défendre la démarche et les conclusions de manière savante. Le travail de recherche présenté doit correspondre aux normes actuelles de la discipline; la thèse doit en outre clairement montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Cours obligatoires (3 crédits)

Expand allContract all

Course	Title	Credits
FREN 706	Élaboration du sujet de thèse.	0
FREN 707	Examen préliminaire.	0
FREN 710	Séminaire de doctorat 1.	1.5
FREN 711	Séminaire de doctorat 2	1.5

Cours complémentaires (6 ou 9 crédits)

6 ou 9 crédits de séminaires au choix de niveau 600 ou plus.

Cours optionnel (0 ou 3 crédits)

Les étudiants de doctorat peuvent obtenir un maximum de 3 crédits en suivant des cours hors du Département, que ce soit à McGill (cours décrits dans l'annuaire des Études supérieures et postdoctorales ('University Calendar of Graduate and Postgraduate Studies') ou dans une autre université. L'étudiant qui choisit cette option doit obtenir l'autorisation du Directeur des études de 2e et 3e cycles et de la recherche, autorisation qui ne sera accordée que si les cours en question cadrent avec son programme d'études et sont du niveau approprié.

Langue et littérature françaises: études sur les femmes et le genre (Ph. D.)

Offered by: French Language & Literature

Degree: Doctor of Philosophy

Program Description

Le programme de « doctorat en langue et littérature françaises; études sur les femmes et le genre » (Gender and Women's Studies) est un programme pluridisciplinaire portant sur des questions reliées au genre et aux recherches et méthodologies féministes, et qui remplit en même temps toutes les exigences du programme de doctorat du Département des littératures de langue française, de traduction et de création. Comme tel, il est axé avant tout sur la recherche, c'est-à-dire sur la production d'une thèse qui représente une contribution significative à l'avancement des connaissances et qui doit porter sur un sujet explicitement lié au genre ou aux études sur les femmes. La thèse doit démontrer que l'étudiant.e a reçu une solide formation en critique littéraire, que son savoir, sa maîtrise des documents et d'une méthode lui ouvrent une carrière sérieuse de chercheur.euse et de professeur.e. Il s'agit d'une composition originale, ce que n'exclut pas le renouvellement d'un sujet déjà traité. Le candidate ou la candidate doit prouver par ce travail qu'il ou elle a acquis une compétence méthodologique suffisante, qu'il ou elle sait délimiter un champ de réflexion, distinguer l'essentiel de l'accessoire, établir et utiliser une bibliographie exhaustive et manier la langue avec justesse. Le programme est conçu pour durer quatre ans.

Thèse

Une thèse de doctorat doit constituer une recherche inédite et représenter un apport distinct au savoir. Elle doit témoigner de la connaissance des travaux antérieurs réalisés dans le domaine et montrer la capacité de planifier et d'accomplir la recherche, d'organiser les résultats et de défendre la démarche et les conclusions de manière savante. Le travail de recherche présenté doit correspondre aux normes actuelles de la discipline; la thèse doit en outre clairement montrer comment son contenu fait progresser les connaissances dans le domaine. Enfin, la thèse doit être rédigée conformément aux normes d'expression universitaire et savante et de publication dans le domaine public.

Cours obligatoires (9 crédits)

Expand allContract all

Course	Title	Credits
FREN 706	Élaboration du sujet de thèse.	0
FREN 707	Examen préliminaire.	0
FREN 710	Séminaire de doctorat 1.	1.5
FREN 711	Séminaire de doctorat 2	1.5
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Cours complémentaires (3 crédits)

Un séminaire (3 crédits) au choix de niveau 500 ou plus parmi les séminaires du Département qui ont été approuvés par l'option et qui portent sur les femmes et le genre. Ce cours ne peut pas être suivi à l'extérieur du Département.

Geography (Thesis) (M.A.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Geography; Thesis is a research- based program of 45 credits. The program provides the opportunity to conduct research, including field- based studies, focusing on the social sciences and includes supervision by a faculty member. Research themes reflect the expertise and interests of current faculty members. A thesis, based on original research, is required.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
GEOG 698	Thesis Proposal.	6
GEOG 699	Thesis Research.	24

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3

Complementary Courses (12 credits)

12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

Geography (Thesis): Development Studies (M.A.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Geography; Thesis – Development Studies is a research-based program of 45 credits. The program focuses on international development issues in geography. The thesis must be on a topic that relates to both development studies and geography, approved by the overseeing coordinating committee.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
GEOG 698	Thesis Proposal.	6
GEOG 699	Thesis Research.	24

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
INTD 657	Development Studies Seminar.	3

Complementary Courses (9 credits)

9 credits of courses at the 500 level or higher related to geography and international development studies to be chosen in consultation with an adviser. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

Geography (Thesis): Environment (M.A.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

The Master of Arts in Geography; Thesis – Environment is a research-based program of 45 credits. This program is offered in collaboration with the Bieler School of Environment (BSE). The program focuses on the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments.

The thesis must be on a topic that relates to both the environment and geography.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
GEOG 697	Thesis Research (Environment Option).	18
GEOG 698	Thesis Proposal.	6

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 650	Environmental Seminar 1.	1
ENVR 651	Environmental Seminar 2.	1
ENVR 652	Environmental Seminar 3.	1
GEOG 631	Methods of Geographical Research.	3

Complementary Courses (12 credits)

9 credits of courses at the 500 level or higher selected according to guidelines of the Department. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from one of the following:

Expand allContract all

Course	Title	Credits
ENVR 620	Environment and Health of Species.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Geography (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Geography; Thesis – Gender and Women's Studies is a research-based program of 45 credits. The program focuses on interdisciplinary gender and women's studies and issues in feminist research and methods. The thesis must be on a topic that relates to both gender and women's studies and geography.

Note: Candidates for the M.A. degree follow an individual program approved by the Department.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
GEOG 698	Thesis Proposal.	6	BIOL 640	Tropical Biology and Conservation.	3
GEOG 699	Thesis Research.	24	ENVR 610	Foundations of Environmental Policy.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (9 credits)

6 credits at the 500 level or above in Geography. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

OR one 3-credit graduate course on gender/women's issues.

Geography (Thesis): Neotropical Environment (M.A.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Geography; Thesis – Neotropical Environment is a research-based program of 45 credits. The program is offered in collaboration with the Bieler School of Environment and the Smithsonian Tropical Research Institute (STRI- Panama). The program is focused on environmental issues relevant to the Neotropics and Latin American countries including thematic areas such as geography, environment, biology, agricultural sciences, sociology, and political science. The program favours interdisciplinary approaches to research and learning through the participation of researchers from McGill University and from STRI. Some research and teaching is conducted in Latin America and Panama. The thesis must be on a topic that relates to both the neotropical environment and geography.

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
GEOG 698	Thesis Proposal.	6
GEOG 699	Thesis Research.	24

Required Courses (9 credits)

Expand allContract all

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Geography (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Geography is a research- based program that provides the opportunity to conduct research, including field-based studies, in both the natural (i.e., biophysical) and the social sciences and includes supervision by a faculty member. Research themes reflect the expertise and interests of current faculty members. A thesis, based on original research, is required.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

Geography: Environment (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Doctor of Philosophy in Geography; Environment is a research-based program offered in collaboration with the Bieler School of Environment (BSE). The program focuses on the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The thesis must be on a topic that relates to both the environment and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0

Complementary Courses (9 credits)

3-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

0-3 credits of Geography course at the 500 level or higher selected according to the guidelines of the Department.

Geography: Gender and Women's Studies (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Geography; Gender and Women's Studies is a research-based program that focuses on interdisciplinary gender and women's studies and issues in feminist research and methods.

The thesis must be on a topic that relates to both gender and women's studies and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

Geography: Neotropical Environment (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Geography; Neotropical Environment is a research-based program offered in collaboration with the Bieler School of Environment and the Smithsonian Tropical Research Institute (STRI-Panama). The program is focused on environmental issues relevant to the Neotropics and Latin American countries including thematic areas such as geography, environment, biology, agricultural sciences, sociology, and political science. The program favours interdisciplinary approaches to research and learning through the participation of researchers from McGill University and from STRI. Some research and teaching is conducted in Latin America and Panama. The thesis must be on a topic that relates to both the neotropical environment and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0

Elective Courses

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

History (Thesis) (M.A.) (45 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in History (Thesis) offers a broad grounding in historical methods and historiography, as well as research training in a specific historical subject.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
HIST 601	Research Seminar.	3
HIST 696	Thesis Research 1.	6
HIST 697	Thesis Research 2.	6
HIST 698	Thesis Research 3.	15

Complementary Courses (15 credits)

15 credits at the 500, 600, or 700 level; credits at the 500 level are normally to be taken as 3-credit courses.

Up to 6 credits of non-HIST courses may be taken outside the Department.

History (Thesis): Development Studies (M.A.) (45 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) History (Thesis): Development Studies offers advanced training in the practice of History as an academic discipline, with an emphasis on international development. It aims to develop critical reading, writing and research skills through broad theoretical reflections on the field of history, specialized courses that include courses in Development Studies, and a thesis on a topic related to international development. The program is designed so that it can be completed in one year.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
HIST 696	Thesis Research 1.	6
HIST 697	Thesis Research 2.	6
HIST 698	Thesis Research 3.	15

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
HIST 601	Research Seminar.	3
INTD 657	Development Studies Seminar.	3

Complementary Courses (12 credits)

12 credits at the 500, 600, or 700 level selected as follows:

6 credits relating to developmental studies;

Up to 6 credits of non-HIST courses may be taken outside the Department.

Credits at the 500 level are normally to be taken as 3-credit courses.

History (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) History (Thesis): Gender & Women's Studies offers advanced training in the practice of History as an academic discipline, with an emphasis on feminist, women's, and gender studies. It aims to develop critical reading, writing, and research skills through broad theoretical reflections on the field of history, specialized courses that include courses in Gender & Women's Studies, and a thesis. The program is designed so that it can be completed in one year.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
HIST 696	Thesis Research 1.	6
HIST 697	Thesis Research 2.	6
HIST 698	Thesis Research 3.	15

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
HIST 601	Research Seminar.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (12 credits)

12 credits at the 500, 600, or 700 level, selected as follows:

3 credits on gender-related issues;

Up to 6 credits of non-HIST courses may be taken outside the Department.

Credits at the 500 level are normally to be taken as 3-credit courses.

History (Ph.D.)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in History focuses on how to understand the past through a combination of intensive primary source research and deep familiarity with the relevant historiography, including the techniques of historical research and interpretation. It requires specialization in three fields of historical inquiry and a Ph.D. thesis research project.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
HIST 701	Doctoral Seminar.	3
HIST 702	Comprehensive Examination - Major Field.	0
HIST 703	Comprehensive Examination - First Minor Field.	0
HIST 704	Comprehensive Examination - Second Minor Field.	0

Complementary Courses

A maximum of 9 credits previously completed at the graduate level, whether at McGill or elsewhere. Courses must be at the 500, 600, or 700 level. Up to 6 credits may be taken in another department.

Language Requirement

Ph.D. candidates must offer one foreign language for examination purposes. Candidates may need a reading knowledge of such other languages as are required for research purposes in their major field. The Department expects that candidates will have successfully demonstrated competence in the one required language by the end of their Ph.D. 3 year.

Classics (Non-Thesis) (M.A.) (45 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Classics; Non-Thesis offers advanced training in the scholarly discipline of classical studies in a variety of fields. The program aims to develop proficiency both in technical areas of the discipline, especially Ancient Greek and Latin languages, and in critical reading, writing, and research skills. This program may be completed in three terms, but it is normally completed in two years.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits	to be completed in three terms, though many students prefer to complete it in two years.
CLAS 681	M.A. Research Project 1.	6	
CLAS 682	M.A. Research Project 2.	6	
CLAS 683	M.A. Research Project 3.	6	

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
CLAS 500	Classics Seminar.	3
CLAS 610	Readings in Latin Literature.	3
CLAS 612	Topics in Latin Literature.	3
CLAS 620	Readings in Ancient Greek Literature.	3
CLAS 622	Topics in Ancient Greek Literature.	3
CLAS 685	Methods Seminar.	3

Complementary Courses (9 credits)

9 credits of 500-level or 600-level courses in Classics, Ancient History, or another classics-related discipline. Classics-related courses must be chosen in consultation with the classics graduate advisor.

A maximum of 6 credits of complementary courses may be taken outside the Department of History and Classical Studies, unless approved by the Classical Studies Committee.

Examinations

Each candidate for the MA degree must pass three exams: Ancient Greek translation, Latin translation, and classical literature. The exams will be based on a set reading list of classical texts and scholarship. The translation exams will test the student's mastery of ancient Greek and Latin; it is assumed students will require advanced proficiency in each language to pass the relevant exam. The classical literature exam will test the student's general knowledge of important authors and texts in translation and classical scholarship.

All exams will be marked pass/fail and may be taken more than once.

Exams will be taken as 0-credit courses, comparable to PhD comps exams.

Exams must be passed within two years of starting the program and within three attempts, or the student will not be allowed to continue in the program.

Classics (Thesis) (M.A.) (45 credits)

Offered by: History and Classical Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Classics (Thesis) emphasizes the writing of a major research project. This program is designed for students who are already highly proficient in ancient languages, have a strong foundation in classical studies, and can work independently. This program is designed

to be completed in three terms, though many students prefer to complete it in two years.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
CLAS 695	M.A. Thesis Proposal.	6
CLAS 696	M.A. Thesis Research 1.	6
CLAS 697	M.A. Thesis Research 2.	6
CLAS 698	M.A. Thesis Submission.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CLAS 500	Classics Seminar.	3
CLAS 685	Methods Seminar.	3

Complementary Courses (15 credits)

12 credits of 600-level Ancient Greek and Latin courses as follows.

3 credits of Classics (CLAS) or Classics-related courses (500-level or higher). Classics-related courses must be chosen in consultation with the student's supervisor.

3-9 credits from the following:

Course	Title	Credits
CLAS 610	Readings in Latin Literature. ¹	3
CLAS 612	Topics in Latin Literature. ¹	3

¹ These courses may be taken in more than one term under different topics.

3-9 credits from the following:

Course	Title	Credits
CLAS 620	Readings in Ancient Greek Literature. ¹	3
CLAS 622	Topics in Ancient Greek Literature. ¹	3

¹ These courses may be taken in more than one term under different topics.

Examinations

Each candidate for the MA degree must pass three exams: Ancient Greek translation, Latin translation, and classical literature. The exams will be based on a set reading list of classical texts and scholarship. The translation exams will test the student's mastery of ancient Greek and Latin; it is assumed students will require advanced proficiency in each language to pass the relevant exam. The classical literature exam will test the student's general knowledge of important authors and texts in translation and classical scholarship.

All exams will be marked pass/fail and may be taken more than once.

Exams will be taken as 0-credit courses, comparable to PhD comps exams.

Exams must be passed within two years of starting the program and within three attempts, or the student will not be allowed to continue in the program.

Information Studies (Non-Thesis): Course Work (M.I.St.) (48 credits)

Offered by: Information Studies (Faculty of Arts)

Degree: MIST

Program credit weight: 48

Program Description

The Master of Information Studies (Non-Thesis): Course Work is accredited by the American Library Association. The program focuses on the intellectual foundations for careers as information professionals, competencies in managing information and knowledge resources, equal access to information, the appropriate use of technology in meeting information needs, research in the field of library and information studies, and commitment to professional service for individuals, organizations and society.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
INFS 601	Foundations of Information Studies.	3
INFS 607	Organization of Information.	3
INFS 611	Research Principles & Analysis.	3
INFS 617	Information System Design.	3
INFS 619	Information Behaviour and Resources.	3
INFS 620	Managing Information Organizations.	3

Complementary Courses (18-30 credits)

Expand allContract all

Course	Title	Credits
INFS 608	Classification and Cataloguing.	3
INFS 609	Metadata and Access.	3
INFS 612	History of Books and Printing.	3
INFS 614	Public Libraries.	3
INFS 615	Reference and Information Services.	3
INFS 616	Information Retrieval.	3
INFS 618	Practices of Critical Theory and Information Studies.	3
INFS 626	Usability Analysis and Assessment.	3
INFS 627	User-Centered Design.	3
INFS 629	Information Security.	3
INFS 630	Data Mining.	3

INFS 631	Data Science for Information Professionals	3
INFS 633	Digital Media.	3
INFS 634	Web System Design and Management.	3
INFS 635	Computer Programming for Information Professionals.	3
INFS 636	Government Information.	3
INFS 639	Introduction to Museology.	3
INFS 641	Archival Description and Access.	3
INFS 642	Preservation Management.	3
INFS 645	Archival Principles and Practice.	3
INFS 649	Digital Curation.	3
INFS 650	Digital Libraries.	3
INFS 656	Abstracting and Indexing.	3
INFS 657	Database Design and Development.	3
INFS 660	Records Management.	3
INFS 661	Knowledge Management.	3
INFS 662	Intellectual Capital.	3
INFS 663	Knowledge Taxonomies.	3
INFS 664	Managing Knowledge Communities.	3
INFS 665	Competitive Intelligence.	3
INFS 671	Health Sciences Information.	3
INFS 672	Law Information.	3
INFS 673	Bioinformatics Resources.	3
INFS 679	Information Literacy.	3
INFS 688	Independent Study.	6
INFS 688D1	Independent Study.	3
INFS 688D2	Independent Study.	3
INFS 689	Selected Topics.	3
INFS 690	Information Policy.	3
INFS 691	Special Topics 1.	3
INFS 692	Special Topics 2.	3
INFS 693	Special Topics 3.	3
INFS 699	Practicum.	3

Elective Courses (0-12 credits)

0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

Elective courses must be approved by the student's adviser and the Graduate Program Director.

Information Studies (Non-Thesis): Project (M.I.St.) (48 credits)

Offered by: Information Studies (Faculty of Arts)

Degree: MIST

Program credit weight: 48

Program Description

The Master of Information Studies Non-Thesis: Project, accredited by the American Library Association, is a 48-credit program, with a research project component of 15 credits. The program focuses on the intellectual foundations for careers as information professionals, competencies in managing information and knowledge resources, equal access to information, the appropriate use of technology in meeting information needs, research in the field of library and information studies, and commitment to professional service for individuals, organizations and society.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
INFS 601	Foundations of Information Studies.	3
INFS 607	Organization of Information.	3
INFS 611	Research Principles & Analysis.	3
INFS 617	Information System Design.	3
INFS 619	Information Behaviour and Resources.	3
INFS 620	Managing Information Organizations.	3

Research Courses

Expand allContract all

Course	Title	Credits
INFS 603	Research Project 1.	6
INFS 604	Research Project 2.	3
INFS 605	Research Project 3. ¹	6
INFS 605D1	Research Project 3. ¹	3
INFS 605D2	Research Project 3. ¹	3

¹ either INFS 605 Research Project 3. or INFS 605 Research Project 3./INFS 605D2 Research Project 3..

Complementary Courses

3-15 credits from the following:

Expand allContract all

Course	Title	Credits
INFS 608	Classification and Cataloguing.	3
INFS 609	Metadata and Access.	3
INFS 612	History of Books and Printing.	3
INFS 614	Public Libraries.	3
INFS 615	Reference and Information Services.	3
INFS 616	Information Retrieval.	3
INFS 618	Practices of Critical Theory and Information Studies.	3
INFS 626	Usability Analysis and Assessment.	3
INFS 627	User-Centred Design.	3
INFS 629	Information Security.	3
INFS 630	Data Mining.	3
INFS 631	Data Science for Information Professionals	3

INFS 633	Digital Media.	3
INFS 634	Web System Design and Management.	3
INFS 635	Computer Programming for Information Professionals.	3
INFS 636	Government Information.	3
INFS 639	Introduction to Museology.	3
INFS 641	Archival Description and Access.	3
INFS 642	Preservation Management.	3
INFS 645	Archival Principles and Practice.	3
INFS 649	Digital Curation.	3
INFS 650	Digital Libraries.	3
INFS 656	Abstracting and Indexing.	3
INFS 657	Database Design and Development.	3
INFS 660	Records Management.	3
INFS 661	Knowledge Management.	3
INFS 662	Intellectual Capital.	3
INFS 663	Knowledge Taxonomies.	3
INFS 664	Managing Knowledge Communities.	3
INFS 665	Competitive Intelligence.	3
INFS 671	Health Sciences Information.	3
INFS 672	Law Information.	3
INFS 673	Bioinformatics Resources.	3
INFS 679	Information Literacy.	3
INFS 689	Selected Topics.	3
INFS 690	Information Policy.	3
INFS 691	Special Topics 1.	3
INFS 692	Special Topics 2.	3
INFS 693	Special Topics 3.	3
INFS 699	Practicum.	3

Elective Courses (0-12 credits)

0-12 credits from other 500-, 600-, or 700-level courses; up to 6 credits may be from other Quebec universities.

Elective courses must be approved by the student's adviser and the Graduate Program Director.

Information Studies (Ph.D.)

Offered by: Information Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. program provides an opportunity to study interdisciplinary research topics within the field of library and information studies at the doctoral level. Students develop scholarly and innovative expertise in one of the four research areas within information studies:

1. information-seeking behaviour;
2. human-computer interaction;

3. information resources in context;
4. knowledge management and representation, as well as an awareness of the inter-relatedness of these areas.

Students begin with a set of common core courses and proceed to specialization through advanced coursework and dissertation topics focused on areas of expertise that are supported by the research interests of current faculty members.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

Students may also be required to take additional courses to prepare them for their research.

Expand allContract all

Course	Title	Credits
INFS 701	Comprehensive Examination. ¹	0
INFS 702	Seminar in Information Studies.	3
INFS 703	Research Paradigms in Information Studies.	3
INFS 704	Research Design in Information Studies.	3

¹ INFS 701 Comprehensive Examination. is normally taken in the second year.

Cybersecurity (Gr. Cert.) (15 credits)

Offered by: Information Studies (Faculty of Arts)

Program credit weight: 15

Program Description

The Graduate Certificate in Cybersecurity is an online program that focuses on the fundamental concepts of cybersecurity: threats, cryptography, and vulnerability; the types of cyber-attacks, how they are implemented, and commonly-used hardening techniques and controls; threat and risk assessments at the network system, operating system, and software application levels; the security readiness of an organization; cybersecurity incidents and how to communicate them within an organization; policies to meet current security standards for an organization to adopt; ethical concerns in terms of security, privacy, and information guidelines and policies within national and international contexts. While majority of the course components will be delivered asynchronously, a very small number of activities may require students to perform synchronously.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
INFS 680	Introduction to Information Security and Cryptography.	3
INFS 681	Modern Software Exploitation and Defence.	3
INFS 682	Network and Endpoint Security.	3
INFS 683	Windows and Linux OS Hardening.	3
INFS 684	Information Security Management.	3

Digital Archives Management (Gr. Cert.) (15 credits)

Offered by: Information Studies (Faculty of Arts)

Program credit weight: 15

Program Description

This program is intended to prepare students to work in the area of digital archives. The graduate courses in the program will focus on principles of organization of information, practices in archival studies, and strategies for digital curation and enterprise content management. This is an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
INFS 607	Organization of Information.	3
INFS 649	Digital Curation.	3

Complementary Courses (9 credits)

chosen from the following:

Expand allContract all

Course	Title	Credits
INFS 609	Metadata and Access.	3
INFS 633	Digital Media.	3
INFS 641	Archival Description and Access.	3
INFS 642	Preservation Management.	3
INFS 645	Archival Principles and Practice.	3
INFS 657	Database Design and Development.	3
INFS 660	Records Management.	3

Information Architecture and Design (Gr. Cert.) (15 credits)

Offered by: Information Studies (Faculty of Arts)

Program credit weight: 15

Program Description

The Graduate Certificate in Information Architecture and Design is intended to prepare students to work as information architects and designers. The graduate courses in the program will prepare students to design and assess information systems (text, multimedia), databases, websites, and interfaces. Techniques for data mining and issues related to information security are also covered. This is an entry-level graduate program that may lead to another certificate or to the M.I.St. (Master of Information Studies).

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
INFS 617	Information System Design.	3
INFS 625	Information Architecture.	3

Complementary Courses (9 credits)

Expand allContract all

Course	Title	Credits
INFS 616	Information Retrieval.	3
INFS 626	Usability Analysis and Assessment.	3
INFS 627	User-Centered Design.	3
INFS 629	Information Security.	3
INFS 630	Data Mining.	3
INFS 633	Digital Media.	3
INFS 634	Web System Design and Management.	3
INFS 657	Database Design and Development.	3

Information and Knowledge Management (Gr. Cert.) (15 credits)

Offered by: Information Studies (Faculty of Arts)

Program credit weight: 15

Program Description

This program is intended to prepare students to work as information and knowledge managers in a variety of sectors. The graduate courses in the program will focus on the information behavior of individuals, networks and organizations, and the nature of tacit and explicit knowledge services and strategies for identifying, capturing, organizing, storing, sharing, and using knowledge throughout the IM/KM lifecycle in order to learn and improve. Tools and techniques for codifying knowledge and facilitating collaboration in networks are also covered. This is an entry-level, graduate program that may lead to another graduate certificate or to the M.I.St. program, however, none of the courses taken in the graduate certificate can be credited towards the M.I.St. program once a graduate certificate has been completed.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
INFS 619	Information Behaviour and Resources.	3
INFS 661	Knowledge Management.	3

Complementary Courses (9 credits)

chosen from the following:

Expand allContract all

Course	Title	Credits
INFS 607	Organization of Information.	3
INFS 620	Managing Information Organizations.	3
INFS 662	Intellectual Capital.	3
INFS 663	Knowledge Taxonomies.	3
INFS 664	Managing Knowledge Communities.	3
INFS 665	Competitive Intelligence.	3

Library and Information Studies (Gr. Cert.) (15 credits)

Offered by: Information Studies (Faculty of Arts)

Program credit weight: 15

Program Description

The Graduate Certificate in Library and Information Studies focuses on new and emerging topics in library and information studies. The program may be completed on a full-time or part-time basis, to a maximum of five years.

Complementary Courses

9-15 credits, three to five INFS courses chosen in consultation with the student's advisor with the exception of the following courses:

Expand allContract all

Course	Title	Credits
INFS 605	Research Project 3.	6
INFS 605D1	Research Project 3.	3
INFS 605D2	Research Project 3.	3
INFS 689	Selected Topics.	3
INFS 696D1	Research Paper 2.	6
INFS 696D2	Research Paper 2.	6

0-6 credits of non-INFS courses with a maximum of 3 credits from outside McGill. All such courses must be at a graduate level and receive prior approval of the student's adviser(s) and the School's Director.

Islamic Studies (Thesis) (M.A.) (45 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Islamic Studies is a language- and research-intensive program that focuses on the variety of specializations offered at the Institute in humanities and social-science disciplines (history, law, philosophy, literature, Qur'anic studies, gender studies, political science, anthropology), from the classical period to the contemporary era. The program focuses on knowledge of Arabic and/or Persian, with additional Islamic language training offered in Turkish or Urdu for linguistic background in the geographic areas of specialization. The program is normally completed in two years.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
ISLA 697	Thesis Research 1.	6
ISLA 698	Thesis Research 2.	6
ISLA 699	Thesis Research 3.	12

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
ISLA 603	Introductory: Research Materials - Islamic Studies.	3

Complementary Courses (18 credits)

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, and Political Science) can count toward the coursework requirements in the same way as ISLA courses.

With permission of the Institute, up to 6 credits from other departments at McGill or other educational institutions can be used.

3 credit seminar course at the 600 or 700 level.

15 credits of ISLA courses at the 500, 600, or 700 level.

Language Requirement

Students must demonstrate proficiency in Arabic or Persian at the second-year level as evidenced by completion of ISLA 622D1 Arabic for Reading 2./ISLA 622D2 Arabic for Reading 2. or ISLA 642D1 Persian for Reading 2./ISLA 643D2 Persian for Reading 3., respectively, or by an examination administered by the Institute.

Note that the courses taken to fulfill the second-year-level requirement will not be credited towards the course requirements.

Islamic Studies (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet degree requirements in Islamic Studies (and other participating departments and faculties) who wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's master's thesis must be on a topic centrally relating to issues of gender or women's studies.

Thesis (24 credits)

Expand allContract all

Course	Title	Credits
ISLA 697	Thesis Research 1.	6
ISLA 698	Thesis Research 2.	6
ISLA 699	Thesis Research 3.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ISLA 603	Introductory: Research Materials - Islamic Studies.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (15 credits)

3 credit of a seminar course at the 600 or 700 level.

3 credits from the following:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or a 3-credit course, at the 500 level or higher, in gender/women's issues.

9 credits of ISLA courses at the 500 level or higher.

With permission of the Institute, up to 3 credits of these 9 credits of Complementary Courses may be chosen from departments at McGill or other educational institutions.

With the approval of the student's supervisor, courses taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

Language Requirement

Students must demonstrate proficiency in Arabic or Persian at the second-year level as evidenced by completion of ISLA 622D1 Arabic for Reading 2./ISLA 622D2 Arabic for Reading 2. or ISLA 642D1 Persian for Reading 2./ISLA 642D2 Persian for Reading 2., respectively, or by an examination administered by the Institute.

Note that the courses taken to fulfill the second-year level requirements will not be credited towards the course requirements.

Islamic Studies (Ph.D.)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Islamic Studies focuses on the history, law, philosophy, literature, Qur'an, gender, politics, anthropology studies in relation to Islamic studies, from the classical period to the contemporary era. The program includes studies on the language of Arabic and/or Persian, with additional Islamic language training offered in Turkish or Urdu. The program should be completed within six years.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
ISLA 603	Introductory: Research Materials - Islamic Studies.	3
ISLA 701	Comprehensive Examination.	0

Complementary Courses (27 credits)

27 credits of courses at the 500 level or higher, including 6 credits at the 600 or 700 level of seminars offered by the Institute of Islamic Studies.

With the permission of the Institute, up to 6 credits, at the 500 level or higher could be taken in other departments at McGill or other institutions.

With the approval of the student's supervisor, courses at the 500 level or higher taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

To avoid over-specialization, a maximum of 9 credits of content courses (i.e., courses that are not primarily devoted to language instruction) can be taken with a single Institute professor.

Language Requirements *

* Note: For the three-year-level language requirement, ISLA 521D1/D2, ISLA 541D1/D2, ISLA 621D1/D2 and ISLA 641D1/D2 will not count toward the 27 complementary credits.

All Ph.D. students are required to have completed three years of Arabic language or Persian language study at the IIS. Students who do not

take the third level of Arabic at the Institute may demonstrate their competence by taking a proficiency examination set by the academic staff of the IIS.

In addition to Arabic or Persian, all Ph.D. students are required to have completed the equivalent of two years of language study at the IIS of another Islamic language. They may demonstrate competence in this language by taking a proficiency examination set by the academic staff of the IIS. Students are, of course, responsible for whatever higher levels are required for their research.

Islamic Studies: Gender and Women's Studies (Ph.D.)

Offered by: Islamic Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The graduate option in Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in Islamic Studies who wish to earn 9 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The student's Ph.D. thesis must be on a topic centrally relating to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ISLA 603	Introductory: Research Materials - Islamic Studies.	3
ISLA 701	Comprehensive Examination.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (21 credits)

21 credits of courses at the 500 level or higher, including 6 credits at the 600 or 700 level of seminars offered by the Institute of Islamic Studies (IIS) AND an additional 3 credits in a course at the 500-level or higher with a substantive focus on women and/or gender.

With the permission of the Institute, up to 6 credits at the 500 level or higher could be taken in other departments at McGill or other institutions.

With the approval of the student's supervisor, courses at the 500 level or higher taken with an IIS faculty member or an associate member in other departments (i.e., History, Anthropology, Political Science) can count toward the coursework requirements in the same way as ISLA courses.

To avoid over-specialization, a maximum of 9 credits of content courses (i.e., courses that are not primarily devoted to language instruction) can be taken with a single Institute professor.

Language Requirements *

* Note: For the three-year-level language requirement, ISLA 521D1/D2, ISLA 541D1/D2, ISLA 621D1/D2 and ISLA 641D1/D2 will not count toward the 21 complementary credits.

All Ph.D. students are required to have completed three years of Arabic language or Persian language study at the IIS. Students who do not take the third level of Arabic or Persian at the Institute may demonstrate their competence by taking a proficiency examination set by the academic staff of the IIS.

In addition to Arabic or Persian, all Ph.D. students are required to have completed the equivalent of two years of language study at the IIS of another Islamic language. They may demonstrate competence in this language by taking a proficiency examination set by the academic staff of the IIS. Students are, of course, responsible for whatever higher levels are required for their research.

Jewish Studies (Thesis) (M.A.) (45 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

An M.A. in Jewish Studies (thesis option) is offered in the following areas: History of the Jewish Interpretation of the Bible, Eastern European Jewish History, Jewish Thought, Hebrew Literature, and Modern Jewish Literatures. These areas of specialization are broadly construed to accommodate the range of research interests in the Department. The M.A. can be completed in one year, though most students spend two years in the program.

Note: Students can choose from either the Jewish Studies Stream or History of the Jewish Interpretation of the Bible Stream.

Jewish Studies Stream (45 credits)

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
JWST 695	M.A. Thesis 1.	9
JWST 696	M.A. Thesis 2.	9
JWST 697	M.A. Thesis 3.	12

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
JWST 699	Research in Jewish Studies.	3

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen according to each student's specialization in consultation with the student's thesis adviser.

Language Requirement

Students choosing Eastern European studies, Jewish thought, or Hebrew literature must demonstrate fluency in either Hebrew or Yiddish according to their field of specialization. Mastery is normally determined by an examination administered by the Department.

History of the Jewish Interpretation of the Bible Stream (45 credits)

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
JWST 690	M.A. Thesis 1.	3
JWST 691	M.A. Thesis 2.	6
JWST 692	M.A. Thesis 3.	12
JWST 694	M.A. Thesis 4.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 699	Research in Jewish Studies.	3

Complementary Courses (12 credits)

12 credits of courses at the 500, 600, or 700 level, chosen in consultation with the student's thesis adviser.

Language Requirement

In addition to Hebrew, students in the History of the Jewish Interpretation of the Bible stream must master another language in which primary documents in this field have been written; in most cases, this will be Aramaic, but classical Arabic and Greek are also accepted. Mastery is normally determined by an examination administered by the Department.

Jewish Studies (Non-Thesis) (M.A.) (45 credits)

Offered by: Jewish Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

All students pursuing this option must take JWST 699 Research in Jewish Studies. JWST 699 Research in Jewish Studies.JWST 699

Research in Jewish Studies.JWST 699 Research in Jewish Studies.. The remaining credits will normally include 15 credits in two of the following areas and 12 credits in the third: Jewish Thought, Jewish History, and Jewish Literature. The substitution of credits in related disciplines outside of Jewish Studies may be permitted if appropriate. The coursework will be adjusted to the applicant's academic background.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
JWST 699	Research in Jewish Studies.	3

Complementary Courses (42 credits)

Students will normally take 15 credits in two of the following areas and 12 credits in the third.

Jewish Thought (12-15 credits)

Expand allContract all

Course	Title	Credits
JWST 504	Seminar in Jewish Thought.	3
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 558	Topics: Modern Jewish Thought.	3
JWST 604	Topics: In Jewish Thought.	3

Jewish History (12-15 credits)

Expand allContract all

Course	Title	Credits
HIST 655	Tutorial.	6
JWST 585	Tutorial: Eastern European Studies 1.	3
JWST 586	Tutorial: Eastern European Studies 2.	3
JWST 602	East European Jewish History 1.	3

Jewish Literature (12-15 credits)

Expand allContract all

Course	Title	Credits
JWST 510	Jewish Bible Interpretation 1.	3
JWST 511	Jewish Bible Interpretation 2.	3
JWST 520	Bible Interpretation in Antiquity.	3
JWST 538	Early Rabbinic Parshanut 1.	3
JWST 615	Literary Analysis of Hebrew Fiction.	3

German (Ph.D.)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in German Studies combines the rigor of traditional philological inquiry into the history of German literature with a

broader cultural studies approach that attends to the historical and technological aspects of German

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

Expand allContract all

Course	Title	Credits
GERM 701	Ph.D. Comprehensive Examination.	0

Complementary Courses

Eight 3-credit courses (24 credits); with the approval of the Graduate Studies Committee, students are permitted to take a maximum of 6 credits in another department.

Language Requirement

French Language examination or Latin (if specializing in German Literature before 1600).

Original research leading to new insights is a prerequisite for the acceptance of a Ph.D. thesis.

As a rule, it will take a student at least three years after the M.A. degree to complete the requirements for the Ph.D. degree. Students who have not spent an appreciable length of time in a German-speaking country are advised to spend one year at a university in such a country, for which credit may be given in the above program.

German (Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in German is a 45- credit program exploring German literature, film, culture, literary theory and/or digital humanities. Areas of interest include memory and cinema studies, realism, Berlin, turn-of-the-century Vienna, Kafka, Nietzsche, Goethe, Heine, the Frankfurt School, digital humanities, and cultural analytics. Students must complete a thesis.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
GERM 690	Thesis Research 1.	9
GERM 691	Thesis Research 2.	9
GERM 692	Thesis Research 3.	9

Complementary Courses (18 credits)

18 credits chosen from any graduate seminar listed as offered in German Studies and, with permission of the Graduate Program Director in Languages, Literatures, and Cultures. With the approval of the Graduate Studies Committee, students are normally permitted to take a maximum of 3 credits in another department.

Originality of research is not required for the thesis, but the student must show a critical understanding of the subject as demonstrated by the logical development of an argument that is supported by adequate documentation.

Students are expected to complete the degree requirements in two years. They are expected to begin work on their thesis before the end of the first session. The thesis should demonstrate ability to organize the material under discussion, and should be succinct and relevant.

German (Non-Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in German; Non-Thesis is a 45- credit program exploring German literature, film, culture, literary theory and/or digital humanities. Areas of interest include memory studies, realism, cinema, Berlin, turn-of-the-century Vienna, Kafka, Nietzsche, Goethe, Heine, the Frankfurt School, digital humanities, and cultural analytics. Students must complete three research papers.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
GERM 680	Research Paper 1.	6
GERM 681	Research Paper 2.	6
GERM 682	Research Paper 3.	6

Complementary Courses (27 credits)

Nine 3-credit courses chosen from any graduate seminar listed as offered in the Department of German Studies. With the approval of the Graduate Studies Committee, students are permitted to take a maximum of 3 credits in another department.

Hispanic Studies (Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (Thesis) in Hispanic Studies is a 45- credit program focusing on Latin American and Spanish literature, film, culture, and/or digital culture. Students must complete an MA Thesis. Areas of interest include but are not limited to, colonial studies, post- and decolonial studies, spatial theory, cinema, transnationalism, nineteenth-century studies, digital humanities, translation studies, urban studies, e-lit, and computational humanities.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
HISP 695	Thesis Preparation 1.	3
HISP 696	Thesis Preparation 2.	3
HISP 697	M.A. Thesis.	21

Complementary Courses (18 credits)

18 credits of graduate-level HISP courses.

Hispanic Studies (Non-Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Hispanic Studies; Non-Thesis focuses on advanced training in the field of Hispanic Studies. It provides a rigorous foundation on the literary and cultural history of the Iberian Peninsula and Latin America from a multidisciplinary perspective.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
HISP 603	Research Project Methodology.	3

Complementary Courses (42 credits)

Research Project

18 credits to be chosen from:

Expand allContract all

Course	Title	Credits	
HISP 615	Pre-1800 Literature and Culture.	9	All general regulations of Graduate and Postdoctoral Studies regarding the Ph.D. degree shall apply.
HISP 616	Modern and Contemporary Iberian Literature and Culture.	9	Required Academic Activities: All candidates preparing their dissertation are required to give an annual formal presentation of their research to the Department, normally beginning in their third year of full-time doctoral studies.
HISP 617	Modern & Contemporary Latin American Literature and Culture.	9	

24 credits at the 500, 600, 700 level in Hispanic Studies courses and courses offered by the Department of Languages, Literatures, and Cultures. Students can take up to 6 credits in courses offered by other departments with permission of the Director of Graduate Studies.

Hispanic Studies (Ph.D.)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The PhD in Hispanic Studies offers an in-depth exploration of the literature and culture of the Hispanic world, with a focus on key areas such as drama and theatre, cultural studies, cinema, and critical theory.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all		
Course	Title	Credits
HISP 701	Ph.D. Comprehensive Examination.	0
HISP 713	Research Seminar.	3

Complementary Courses (18 credits)

Six 3-credit courses

Language Requirement

Proficiency in Spanish, and, when appropriate, in Portuguese, as well as a functional ability in French and English. A reading knowledge of a fourth language will be determined according to the needs of the candidate's research program.

All courses, comprehensive examinations and language requirements will normally be completed before the dissertation topic is formally approved. A dissertation proposal should be submitted to the Graduate Committee of the Department of Hispanic Studies for approval no later than the end of the second year of full-time doctoral studies.

Italian (Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Italian is a 45-credit program focusing on Italian literature, film, culture, literary theory, a thesis proposal, and a thesis. Areas of interest include film studies, nineteenth-century studies, transnational studies, gender studies, Calvino, Bertolucci, Early Renaissance Naples and Venice, vernacular and Neo-Latin poetry, among others.

Thesis Courses (24 credits)

Expand allContract all		
Course	Title	Credits
ITAL 698	Thesis Proposal.	6
ITAL 699	Thesis.	18

Required Courses (12 credits)

Expand allContract all		
Course	Title	Credits
ITAL 602	The Literary Tradition.	3
ITAL 610	Bibliography of Italian Literature.	3
ITAL 619	Topics in Literary Theory.	3
ITAL 680	Research Seminar.	3

Complementary Courses (9 credits)

9 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The three courses should cover three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Individual Reading Course 1. and ITAL 607 Individual Reading Course 2. offered as tutorials.

Typically, the first year of the program will consist of: Literary Theory course, ITAL 610 Bibliography of Italian Literature., the three complementary courses and ITAL 698 Thesis Proposal.. The second

year will include ITAL 602 The Literary Tradition., ITAL 680 Research Seminar. and the thesis.

Italian (Non-Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Italian; Non-Thesis is a 45- credit program focusing on Italian literature, film, culture, literary theory, and two research projects. Areas of interest include film studies, nineteenth-century studies, transnational studies, gender studies, film studies, Calvino, Bertolucci, Early Renaissance Naples and Venice, vernacular and Neo-Latin poetry, among others.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
ITAL 690	Research Paper 1.	9
ITAL 691	Research Paper 2.	9

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ITAL 602	The Literary Tradition.	3
ITAL 610	Bibliography of Italian Literature.	3
ITAL 619	Topics in Literary Theory.	3
ITAL 680	Research Seminar.	3

Complementary Courses (15 credits)

15 additional course credits, chosen in consultation with an adviser from among the graduate courses offered by the Department. The courses should cover at least three distinct chronological periods in Italian literature.

A maximum of 6 credits of graduate courses may be taken outside the Italian Studies Department, upon the advice of the Supervisor and with the permission of the Graduate Studies Director.

In exceptional cases, when program requirements cannot be fulfilled otherwise, students may take ITAL 606 Individual Reading Course 1. and ITAL 607 Individual Reading Course 2. offered as tutorials.

Typically, the first year of the program will consist of: Literary Theory course, ITAL 610 Bibliography of Italian Literature., three complementary courses, and ITAL 690 Research Paper 1.. The second year will include: ITAL 602 The Literary Tradition., ITAL 680 Research Seminar., two complementary courses, and ITAL 691 Research Paper 2..

Russian and Slavic Studies (Thesis) (M.A.) (45 credits)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

The M.A. in Russian and Slavic Studies focuses on the tools and expertise needed to situate research in the historical context of modern and contemporary Russian and Slavic cultural history, with an emphasis on recent scholarship, including theoretical, cross-cultural and intermedial developments in the field.

Thesis Courses (27 credits)

The Thesis Proposal is normally submitted for review by the Department Graduate Committee at the end of the second term of residency. Candidates should consult the Department Thesis Proposal Guidelines prepared by the Graduate Committee of the Russian and Slavic Studies program of the Department of Languages, Literatures and Cultures.

Expand allContract all

Course	Title	Credits
RUSS 691	M.A. Thesis Proposal.	3
RUSS 692	M.A. Thesis.	24

Complementary Courses (18 credits)

12-18 credits of graduate coursework in the Department

0-6 credits of graduate coursework outside the Department, subject to approval by the Department Graduate Committee.

Russian and Slavic Studies (Ph.D.)

Offered by: Languages,Literatures,Cultures (Faculty of Arts)

Degree: Doctor of Philosophy

The Ph.D. in Russian and Slavic Studies focuses on the tools and expertise needed to produce original research in and demonstrate an overview of the historical context of modern and contemporary Russian cultural history, with emphasis on recent scholarship, including theoretical, cross-cultural and intermedial developments in the field, and reaching out, where appropriate, from a purely Russo-centric focus into other Slavic cultures.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
RUSS 700	Ph.D. Tutorial.	0
RUSS 701	Ph.D. Comprehensive Examination.	0
RUSS 702	Ph.D. Thesis Proposal.	0
RUSS 760	Pre-Petrine Foundation.	0
RUSS 770	18th Century Foundation.	0

Complementary Courses (12-18 credits)

12-18 credits at the 600-level or higher, depending on whether the student enters at the Ph.D. 1 or Ph.D. 2 level. Depending on their individual background, students may be asked to take additional coursework as approved by the Department Graduate Committee.

Language Requirement

Proficiency in Russian, functional ability in English and in French, and proficiency in a second Slavic language, if relevant to the research topic and where deemed appropriate by the Department Graduate Committee.

Linguistics (Thesis) (M.A.) (45 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Linguistics; Thesis program provides training in the fundamentals of theoretical and experimental linguistics. The program culminates in the preparation of a thesis, which is written under the direction of a supervisory committee, and which is expected to report on original research outcomes of publishable quality.

Thesis Course (18 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
LING 690	M.A. Thesis Submission.	18

Required Courses (6 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
LING 601	Graduate Research Seminar 1.	3
LING 602	Graduate Research Seminar 2.	3

Complementary Courses (21 credits)

6-12 credits from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
LING 630	Phonetics 3.	3
LING 631	Phonology 3.	3
LING 660	Semantics 3.	3
LING 671	Syntax 3.	3

6-15 credits in Linguistics at the 500, 600, or 700 level.

0-3 credits in a related field at the 500, 600, or 700 level, chosen in consultation with the supervisor and the graduate program director.

Linguistics (Non-Thesis) (M.A.) (45 credits)

Offered by: Linguistics (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

The M.A. in Linguistics; Non-Thesis program provides training in the fundamentals of theoretical and experimental linguistics. The program culminates a major research paper, which is written under the direction of a supervisory committee.

Research Project (15 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
LING 605	M.A. Research 1.	3
LING 606	M.A. Research 2.	3
LING 607	M.A. Research Paper.	9

Required Courses (6 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
LING 601	Graduate Research Seminar 1.	3
LING 602	Graduate Research Seminar 2.	3

Complementary Courses (24 credits)

9-12 credits from:

Course	Title	Credits
LING 630	Phonetics 3.	3
LING 631	Phonology 3.	3
LING 660	Semantics 3.	3
LING 671	Syntax 3.	3

9-15 credits in Linguistics at the 500, 600, or 700 level.

0-3 credits in a related field at the 500, 600, or 700 level, chosen in consultation with the supervisor and the graduate program director.

Linguistics (Ph.D.)

Offered by: Linguistics (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Linguistics provides training in the fundamentals of theoretical and experimental linguistics. The program culminates in the preparation of a thesis, which is written under the direction of a supervisory committee, and which is expected to constitute original scholarship and be a distinct contribution to knowledge.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Note: LING 706 Ph.D. Evaluation 1. and LING 707 Ph.D. Evaluation 2. must be completed before proceeding to thesis research.

Expand allContract all

Course	Title	Credits
LING 601	Graduate Research Seminar 1.	3
LING 602	Graduate Research Seminar 2.	3
LING 706	Ph.D. Evaluation 1.	0
LING 707	Ph.D. Evaluation 2.	0

Complementary Courses (30 credits)

9-12 credits from the following:

Expand allContract all

Course	Title	Credits
LING 630	Phonetics 3.	3
LING 631	Phonology 3.	3
LING 660	Semantics 3.	3
LING 671	Syntax 3.	3

18-21 credits to be chosen from among 500-level or above departmental course offerings in consultation with the supervisor(s) and the graduate program director. Courses in other departments may be approved by the graduate program director.

Linguistics: Language Acquisition (Ph.D.)

Offered by: Linguistics (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

Students must satisfy all program requirements for the Ph.D. in Linguistics. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (27 credits)

Note: LING 706 Ph.D. Evaluation 1. and LING 707 Ph.D. Evaluation 2. must be completed before proceeding to thesis research.

Expand allContract all

Course	Title	Credits
LING 601	Graduate Research Seminar 1.	3
LING 602	Graduate Research Seminar 2.	3
LING 630	Phonetics 3.	3
LING 631	Phonology 3.	3
LING 635	Phonetics and Phonology 4.	3
LING 660	Semantics 3.	3
LING 671	Syntax 3.	3
LING 706	Ph.D. Evaluation 1.	0
LING 707	Ph.D. Evaluation 2.	0
LING 710	Language Acquisition Issues 2.	2
PSYC 709	Language Acquisition Issues 1.	2
SCSD 712	Language Acquisition Issues 4.	2

Complementary Courses (18 credits)

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

3 credits of statistics from the following list:

Expand allContract all

Course	Title	Credits
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis. ¹	3
LING 620	Experimental Linguistics: Methods.	3

Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3

¹ If LING 620 Experimental Linguistics: Methods. is taken to satisfy both the Statistics and the Methods complementary requirements, then 3 additional credits should be taken at the 500, 600, or 700 level.

3 credits from the following:

Expand allContract all

Course	Title	Credits
LING 665	Semantics 4.	3
LING 675	Syntax 4.	3

6 credits from the following methods courses:

Expand allContract all

Course	Title	Credits
LING 610	Linguistic Field Research.	3
¹ LING 620	Experimental Linguistics: Methods.	3
LING 645	Computational Research on Language.	3
LING 661	Advanced Formal Methods.	3

¹ If LING 620 Experimental Linguistics: Methods. is taken to satisfy both the Statistics and the Methods complementary requirements, then 3 additional credits should be taken at the 500, 600, or 700 level.

6 additional credits at the 500, 600, or 700 level, at least 3 credits selected from the following list:

Expand allContract all

Course	Title	Credits
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 623	Second Language Learning.	3
EDSL 624	Educational Sociolinguistics.	3
EDSL 627	Instructed Second Language Acquisition Research.	3
EDSL 632	Second Language Literacy Development.	3
¹ LING 651	Topics in Acquisition of Phonology.	3
PSYC 545	Topics in Language Acquisition.	3
PSYC 735	Developmental Psychology and Language.	3
SCSD 619	Phonological Development.	3
SCSD 632	Phonological Disorders: Children.	3
SCSD 637	Developmental Language Disorders 1.	3
SCSD 643	Developmental Language Disorders 2.	3
SCSD 652	Advanced Research Seminar 1.	3
SCSD 653	Advanced Research Seminar 2.	3

0-2 credits from the following:

Expand allContract all

Mathematics and Statistics (Thesis) (M.A.) (45 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) in Mathematics and Statistics; Thesis is an advanced program focusing on the areas of applied mathematics, pure mathematics, and statistics.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
MATH 600	Master's Thesis Research 1.	6
MATH 601	Master's Thesis Research 2.	6
MATH 604	Master's Thesis Research 3.	6
MATH 605	Master's Thesis Research 4.	6

Complementary Courses (21 credits)

At least 6 approved graduate courses, at the 500, 600 or 700 level, of 3 credits or more each.

Mathematics and Statistics (Non-Thesis) (M.A.) (45 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is not currently offered.

The Master of Arts (M.A.) in Mathematics and Statistics; Non-Thesis is an advanced program focusing on the areas of applied mathematics, pure mathematics, and statistics.

Research Project (16 credits)

Expand allContract all

Course	Title	Credits
MATH 640	Project 1.	8
MATH 641	Project 2.	8

0-2 credits from the following:

Expand allContract all

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

Mathematics and Statistics (Ph.D.)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Mathematics and Statistics focuses on research in the mathematical or statistical sciences, including the completion of original research publishable in mainstream refereed journals.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
MATH 701	Ph.D. Qualifying Examination .	0

Complementary Courses (21 credits)

21 credits of courses at the 500 level or above, including at least 6 credits at the 600 level or above. The choice of courses to fulfill this requirement must be prior approved by the student's Advisory Committee. The Department recommends that students take complementary courses in at least three different areas of Mathematics and Statistics.

All credits of complementary courses should be taken before the end of PhD 3. In exceptional circumstances, an extension can be granted by the student's Advisory Committee.

Students who wish to take more than 8 credits of complementary courses from outside the Department should request approval from the Graduate Program Director.

Philosophy (Thesis): Bioethics (M.A.) (45 credits)

Offered by: Philosophy (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Philosophy; Bioethics is an interdisciplinary academic program that emphasizes both the conceptual and the practical aspects of bioethics. The standard completion time is 2 years. A thesis is required.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
BIOE 690	M.Sc. Thesis Literature Survey.	3
BIOE 691	M.Sc. Thesis Research Proposal.	3
BIOE 692	M.Sc. Thesis Research Progress Report.	6
BIOE 693	M.Sc. Thesis.	12

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
BIOE 680	Bioethical Theory.	3
BIOE 681	Bioethics Practicum.	3
PHIL 643	Seminar: Medical Ethics.	3

Complementary Courses (12 credits)

12 credits are to be taken in any graduate courses required or accepted by the Department of Philosophy for the granting of a master's degree.

Philosophy (Ph.D.)

Offered by: Philosophy (Faculty of Arts)

Degree: Doctor of Philosophy

The Ph.D. in Philosophy offers training in a wide range of areas of philosophy, with specializations in ancient and medieval (especially Arabic) philosophy; early modern philosophy; Kant; philosophy of mind; philosophy of Artificial Intelligence; aesthetics; moral and political philosophy; feminist philosophy; history and philosophy of science and mathematics; and contemporary European philosophy. The program includes a candidacy paper and the preparation and defence of a thesis.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits	
PHIL 682	Pro-Seminar 3.	6	3-9 credits of complementary courses must be at the 500 level or higher and are to be chosen in consultation with the student's advisory committee.
PHIL 701	Candidacy Examination.	0	
PHIL 704	Dissertation Seminar	0	

Complementary Courses (21-27 credits)

Students admitted to Ph.D. 1 require 27 credits.

Students admitted to Ph.D. 2 require 21 credits.

6 credits from the following:

Expand allContract all		
Course	Title	Credits
PHIL 651	Seminar: Ancient Philosophy 2.	3
PHIL 656	Medieval Philosophy.	3
PHIL 661	Seminar: 18th Century Philosophy.	3
PHIL 675	Seminar: Contemporary European Philosophy.	3

and/or any other course at the 500 level or higher in the history of philosophy recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all		
Course	Title	Credits
PHIL 627	Seminar: Critical Philosophy of Race.	3
PHIL 634	Seminar: Ethics.	3
PHIL 643	Seminar: Medical Ethics.	3
PHIL 644	Political Theory.	3
PHIL 648	Seminar: Philosophy of Law.	3

and/or any other course at the 500 level or higher in value theory recommended/accepted by the student's advisory committee

6 credits from the following:

Expand allContract all		
Course	Title	Credits
PHIL 606	Seminar: Philosophy of Mind.	3
PHIL 610	Seminar on Advanced Logic 2.	3
PHIL 611	Seminar: Philosophy of Logic and Mathematics.	3
PHIL 615	Seminar: Philosophy of Language.	3
PHIL 619	Seminar: Epistemology.	3
PHIL 621	Seminar: Metaphysics.	3
PHIL 670	Seminar: Contemporary Analytic Philosophy.	3

and/or any other course at the 500 level or higher in metaphysics and epistemology recommended/accepted by the student's advisory committee.

Skills Requirement

One research language at the advanced level or two research languages at the intermediate level. Students whose research specialization does not require linguistic competence in other languages may choose, with approval from their supervisors and the Director of Graduate Studies, to take a complementary course that will enhance their research skills instead of satisfying the language requirement.

Logic Requirement

The Logic requirement is satisfied in one of three ways:

1. The student sits a deductive logic examination set by the department.
2. The student takes and passes a deductive logic course approved by the department.
3. The student has taken an approved deductive logic course at another institution.

These credits do not count towards this program's credit requirements. The requirement must be satisfied by the end of the second year in the program.

Philosophy: Environment (Ph.D.)

Offered by: Philosophy (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Ph.D. in Philosophy; Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3
PHIL 682	Pro-Seminar 3.	6

PHIL 701	Candidacy Examination.	0	Course	Title	Credits
PHIL 704	Dissertation Seminar	0	ENVR 610	Foundations of Environmental Policy.	3

Complementary Courses(27-33 credits)

Students admitted to Ph.D. 1 require 33 credits.

Students admitted to Ph.D. 2 require 27 credits.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 651	Seminar: Ancient Philosophy 2.	3
PHIL 656	Medieval Philosophy.	3
PHIL 661	Seminar: 18th Century Philosophy.	3
PHIL 675	Seminar: Contemporary European Philosophy.	3

and/or any other course at the 500 level or higher in the history of philosophy recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 627	Seminar: Critical Philosophy of Race.	3
PHIL 634	Seminar: Ethics.	3
PHIL 643	Seminar: Medical Ethics.	3
PHIL 644	Political Theory.	3
PHIL 648	Seminar: Philosophy of Law.	3

and/or any other course at the 500 level or higher in value theory recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 606	Seminar: Philosophy of Mind.	3
PHIL 610	Seminar on Advanced Logic 2.	3
PHIL 611	Seminar: Philosophy of Logic and Mathematics.	3
PHIL 615	Seminar: Philosophy of Language.	3
PHIL 619	Seminar: Epistemology.	3
PHIL 621	Seminar: Metaphysics.	3
PHIL 670	Seminar: Contemporary Analytic Philosophy.	3

and/or any other course at the 500 level or higher in metaphysics and epistemology recommended/accepted by the student's advisory committee

3-6 credits from the following:

Expand allContract all

0-3 credits from:

Expand all	Contract all
Course	Title
ENVR 585	Readings in Environment 2.
ENVR 630	Civilization and Environment.

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

3-9 credits of complementary courses must be at the 500 level or higher and are to be chosen in consultation with the student's advisory committee.

Skills Requirement

Students whose research specialization does not require linguistic competence in other languages may choose, with approval from their supervisors and the Director of Graduate Studies, to take a complementary course that will enhance their research skills instead of satisfying the language requirement.

Logic Requirement

The Logic requirement must be satisfied in one of three ways:

1. The student sits a deductive logic examination set by the department.
2. The student takes and passes a deductive logic course approved by the department.
3. The student has taken an approved deductive logic course at another institution.

These credits do not count towards this program's credit requirements. The requirement must be satisfied by the end of the second year in the program.

Philosophy: Gender and Women's Studies (Ph.D.)

Offered by: Philosophy (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The PhD in Philosophy: Gender and Women's Studies is an interdisciplinary program that focuses on gender and women's studies and issues in feminist research and methods. The candidacy paper and thesis must be on a topic centrally related to issues of gender and/or women's studies.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the

thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
PHIL 682	Pro-Seminar 3.	6
PHIL 701	Candidacy Examination.	0
PHIL 704	Dissertation Seminar	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (24-30 credits)

Students admitted to Ph.D. 1 require 30 credits.

Students admitted to Ph.D. 2 require 24 credits.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 651	Seminar: Ancient Philosophy 2.	3
PHIL 656	Medieval Philosophy.	3
PHIL 661	Seminar: 18th Century Philosophy.	3
PHIL 675	Seminar: Contemporary European Philosophy.	3

and/or any other course at the 500 level or higher in the History of Philosophy recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 627	Seminar: Critical Philosophy of Race.	3
PHIL 634	Seminar: Ethics.	3
PHIL 643	Seminar: Medical Ethics.	3
PHIL 644	Political Theory.	3
PHIL 648	Seminar: Philosophy of Law.	3

and/or any other course at the 500 level or higher in Value Theory recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 606	Seminar: Philosophy of Mind.	3
PHIL 610	Seminar on Advanced Logic 2.	3
PHIL 611	Seminar: Philosophy of Logic and Mathematics.	3
PHIL 615	Seminar: Philosophy of Language.	3
PHIL 619	Seminar: Epistemology.	3

PHIL 621	Seminar: Metaphysics.	3
PHIL 670	Seminar: Contemporary Analytic Philosophy.	3

and/or any other course at the 500 level or higher in Metaphysics and Epistemology recommended/accepted by the student's advisory committee.

3 credits selected from the list of Women's Studies graduate course offerings, or other graduate option- approved courses from participating departments.

3-9 credits of complementary courses must be at the 500 level or higher and are to be chosen in consultation with the student's advisory committee.

Skills Requirement

One research language at the advanced level or two research languages at the intermediate level. Students whose research specialization does not require linguistic competence in other languages may choose, with approval from their supervisors and the Director of Graduate Studies, to take a complementary course that will enhance their research skills instead of satisfying the language requirement.

Logic Requirement

The Logic requirement is satisfied in one of three ways:

1. The student sits a deductive logic examination set by the department.
2. The student takes and passes a deductive logic course approved by the department.
3. The student has taken an approved deductive logic course at another institution.

These credits do not count towards this program's credit requirements. The requirement must be satisfied by the end of the second year in the program.

Philosophy: Teaching Philosophy (Ph.D.)

Offered by: Philosophy (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Philosophy; Teaching Philosophy focuses on the theoretical and practical skills of teaching philosophy, as well as pedagogical issues that may be specific to the discipline of philosophy. Guidance is provided by a faculty mentor.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
ARTE 700	Seminar: Teaching Humanities.	3
PHIL 682	Pro-Seminar 3.	6
PHIL 703	Teaching Reflection and Practice.	1
PHIL 701	Candidacy Examination.	0
PHIL 704	Dissertation Seminar	0

Complementary Courses (21-27 Credits)

Students admitted to Ph.D. 1 require 27 credits.

Students admitted to Ph.D. 2 require 21 credits.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 651	Seminar: Ancient Philosophy 2.	3
PHIL 656	Medieval Philosophy.	3
PHIL 661	Seminar: 18th Century Philosophy.	3
PHIL 675	Seminar: Contemporary European Philosophy.	3

and/or any other course at the 500 level or higher in the History of Philosophy recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 627	Seminar: Critical Philosophy of Race.	3
PHIL 634	Seminar: Ethics.	3
PHIL 643	Seminar: Medical Ethics.	3
PHIL 644	Political Theory.	3
PHIL 648	Seminar: Philosophy of Law.	3

and/or any other course at the 5000 level or higher in Value Theory recommended/accepted by the student's advisory committee.

6 credits from the following:

Expand allContract all

Course	Title	Credits
PHIL 606	Seminar: Philosophy of Mind.	3
PHIL 610	Seminar on Advanced Logic 2.	3
PHIL 611	Seminar: Philosophy of Logic and Mathematics.	3
PHIL 615	Seminar: Philosophy of Language.	3
PHIL 619	Seminar: Epistemology.	3
PHIL 621	Seminar: Metaphysics.	3
PHIL 670	Seminar: Contemporary Analytic Philosophy.	3

and/or any other course at the 500 level or higher in metaphysics and epistemology recommended/accepted by the student's advisory committee.

3-9 credits of complementary courses must be at the 500 level or higher and are to be chosen in consultation with the student's advisory committee.

Skills Requirement

One research language at the advanced level or two research languages at the intermediate level. Students whose research specialization does not require linguistic competence in other languages may choose, with approval from their supervisors and the Director of Graduate Studies, to take a complementary course that will enhance their research skills instead of satisfying the language requirement.

Logic Requirement

The Logic requirement is satisfied in one of three ways:

1. The student sits a deductive logic examination set by the department.
2. The student takes and passes a deductive logic course approved by the department.
3. The student has taken an approved deductive logic course at another institution.

These credits do not count towards this program's credit requirements. The requirement must be satisfied by the end of the second year in the program.

Political Science (Thesis) (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. program is generally recognized as among the most demanding and rewarding in Canada. Students take courses in two or more sub-fields of political science. The focus of the program is to provide training in the discipline of political science and prepare students for further graduate work. Students need to demonstrate an ability to design and execute with competence a major piece of research, comparable to a full#length article in a scholarly journal.

Thesis Courses (24 credits)

A thesis is required to demonstrate proficiency in research. It is normally about 60 pages long and is subject to evaluation by one examiner internal to the Department and one examiner external to the Department.

Expand allContract all

Course	Title	Credits
POLI 697	M.A. Thesis Proposal.	12
POLI 698	Master's Thesis Submission.	12

Required Course (3 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
POLI 694	Research Preparation 1.	3	POLI 697	M.A. Thesis Proposal.	12
			POLI 698	Master's Thesis Submission.	12

Complementary Courses (18 credits)

- 12-15 credits of 500- or 600-level courses as determined by the student's area of study.
- 3-6 credits, either of the following 3-credit options or, preferably, both:
 - or a more suitable advanced course at the 500 level or higher.

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3
<ul style="list-style-type: none"> or, one of the following courses: 		

Expand allContract all

Course	Title	Credits
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

Of the 18 credits of complementary courses, up to 3 credits at the 500 level or higher may be outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

Political Science (Thesis): Development Studies (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Development Studies Option (DSO) is a cross-disciplinary M.A. program offered within existing M.A. programs in the Departments of Geography, History, Political Science, Anthropology, Economics, and Sociology. It provides students with broad training in development studies. Students take an interdisciplinary seminar (INTD 657 Development Studies Seminar.) that is co-taught by professors from two different disciplines and a variety of graduate-level courses on international development issues. They write an M.A. thesis on a topic relating to development studies, approved by the DSO Coordinating Committee.

Thesis Courses (24 credits)

Expand allContract all

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
INTD 657	Development Studies Seminar.	3
POLI 694	Research Preparation 1.	3

Complementary Courses (15 credits)

9-12 credits of 500- or 600-level courses. A course list is available from the Department.

3-6 credits, either of the following 3-credit options or, preferably, both:

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3
<ul style="list-style-type: none"> or a more suitable more advanced 500- or 600- level course or one of the following courses: 		
<ul style="list-style-type: none"> Expand allContract all 		
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

Of the 15 credits of complementary courses, up to 3 credits at the 500 level or higher may be taken from outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

Political Science (Thesis): European Studies (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The European Studies Option (ESO) is an option offered within existing M.A. programs in the Departments of Political Science, History, and Sociology, as well as in the Faculty of Law. This option is open to students whose work is focused on Europe, in particular on issues relating to European integration, broadly understood. Students take an interdisciplinary capstone seminar and two other courses on European themes and issues as part of their M.A. program. They write an M.A.

thesis on a topic relating to European Studies, approved by the ESO Coordinating Committee

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
POLI 697	M.A. Thesis Proposal.	12
POLI 698	Master's Thesis Submission.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
POLI 659	The European Union and Europe .	3
POLI 694	Research Preparation 1.	3

Complementary Courses (15 credits)

6-9 credits at the 500, 600, or 700 level in courses in political science. A course list is available from the Department.

3-6 credits, either of the following 3-credit options, or preferably both:

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

or a more suitable more advanced 500- or 600-level course.

or one of the following courses:

Expand allContract all

Course	Title	Credits
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

3-6 credits from the following group of courses on European politics:

Expand allContract all

Course	Title	Credits
POLI 619	Race, Ethnicity, and Politics .	3
POLI 628	Comparative Politics.	3
POLI 629	Politics of Eurasia.	3
POLI 630	Topics in European Politics.	3
POLI 639	Themes in Comparative Politics 1.	3
POLI 680	Social Change/Advanced Industrialized Democracies.	3

Of the 15 credits of complementary courses, up to 3 credits at the 500 level or higher may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

Political Science (Non-Thesis) (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
POLI 693	M.A. Research Proposal.	3
POLI 694	Research Preparation 1.	3
POLI 695	Research Preparation 2.	3
POLI 696	Research Preparation 3.	3
POLI 699	Master's Research Essay.	6

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
POLI 691	Bibliographic Methods 1.	6

Complementary Courses (21 credits)

15-18 credits of 500- or 600-level courses; up to 6 credits may be outside the Department.

3-6 credits, either of the following 3-credit options, or preferably, both:

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3
	or a suitable more advanced course.	
	One of the following courses:	
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

Political Science (Non-Thesis): Development Studies (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Research Project (18 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 693	M.A. Research Proposal.	3
POLI 694	Research Preparation 1.	3
POLI 695	Research Preparation 2.	3
POLI 696	Research Preparation 3.	3
POLI 699	Master's Research Essay.	6

Required Courses (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
INTD 657	Development Studies Seminar.	3
POLI 691	Bibliographic Methods 1.	6

Complementary Courses (18 credits)

- 12-15 credits of additional 500- or 600-level courses related to international development studies. Course list is available from the Department.
- 3-6 credits, either of the following 3-credit options or, preferably, both:

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

• or a suitable more advanced 500- or 600-level course.
 • One of the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program in international development studies approved by the Department.

Political Science (Non-Thesis): European Studies (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Research Project (18 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 693	M.A. Research Proposal.	3
POLI 694	Research Preparation 1.	3
POLI 695	Research Preparation 2.	3
POLI 696	Research Preparation 3.	3
POLI 699	Master's Research Essay.	6

Required Courses (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 659	The European Union and Europe .	3
POLI 691	Bibliographic Methods 1.	6

Complementary Courses (18 credits)

- 3-6 credits at the 500, 600, or 700 level in courses in the Department. A course list is available from the Department.
- 3-6 credits, either of the following 3-credit options or, preferably, both:

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

• or a suitable more advanced 500- or 600-level course
 • or one of the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3
POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

- 6-9 credits from the following group of courses on European Politics:

[Expand all](#)[Contract all](#)

Course	Title	Credits
POLI 619	Race, Ethnicity, and Politics .	3
POLI 628	Comparative Politics.	3
POLI 629	Politics of Eurasia.	3
POLI 630	Topics in European Politics.	3
POLI 639	Themes in Comparative Politics 1.	3
POLI 680	Social Change/Advanced Industrialized Democracies.	3

Of the 18 credits of complementary courses, up to 6 credits may be taken outside the Department.

Candidates for the M.A. degree follow an individual program approved by the Department.

Political Science (Non-Thesis): Social Statistics (M.A.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
POLI 693	M.A. Research Proposal.	3
POLI 694	Research Preparation 1.	3
POLI 695	Research Preparation 2.	3
POLI 696	Research Preparation 3.	3
POLI 699	Master's Research Essay.	6

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
POLI 691	Bibliographic Methods 1.	6

Complementary Courses (21 credits)

12-15 credits of 500- or 600-level POLI courses; up to 6 credits in related disciplines may be allowed if they are appropriate to the program.

3 credits chosen from the following:

Expand allContract all

Course	Title	Credits
ECON 688	Seminar on Social Statistics.	3
POLI 688	Seminar on Social Statistics.	3

3-6 credits, either of the following 3-credit options, or preferably both:

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

or a suitable more advanced course.

One of the following:

Expand allContract all

Course	Title	Credits
POLI 561	Seminar: Political Theory.	3
POLI 613	Selected Themes: Political Theory.	3

POLI 614	Proseminar in Political Theory.	3
POLI 616	Modern Political Analysis.	3
POLI 617	Problems in Political Theory.	3

Candidates for the M.A. degree follow a program approved on an individual basis by the Department.

Political Science (Ph.D.)

Offered by: Political Science (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Political Science focuses on the following political science subfields: international relations, comparative politics, Canadian politics, and political theory. Broad training is provided in the discipline and specialization in two major fields of choice is required. Comprehensive exams in two fields are taken in the first and/or second year of study, in consultation with supervisors, field coordinators, and the Graduate Program Director.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
POLI 700	PhD Research Seminar.	0
POLI 701	Ph.D. General Written Examination First Field.	0
POLI 702	Ph.D. General Written Examination Second Field.	0
POLI 799	Ph.D. Oral Comprehensive Examination.	0

Complementary Courses (39 credits)

39 credits at the 500 or 600 level, chosen as follows:

Major Fields

12 credits chosen in first major field of which 3 credits must be the core course in the field.

9 credits chosen in second major field of which 3 credits must be the core course in the field.

Political Theory

3 credits in political theory at the 500 or 600 level.

Methods

3 credits from the following:

or another suitable Advanced Methods course.

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

Remaining Courses

12 credits of which at least 3 credits must be outside the student's major fields. For students that choose the advanced methods courses as part of the Advanced Research Tools, 6 of these 12 credits must be the advanced methods courses.

Advanced Research Tools

Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language to fulfil this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Methods: To fulfil this requirement, students must complete 9 advanced methods credits (600 or 700 level) in qualitative and quantitative methods, selected in consultation with the student advisor, the Graduate program Director, and the methods coordinator. Students for whom Methods is one of their major fields will automatically fulfil the Advanced Research Tool requirement.

Political Science: Gender and Women's Studies (Ph.D.) (45 credits)

Offered by: Political Science (Faculty of Arts)

Degree: Doctor of Philosophy

Program credit weight: 45

Program Description

The Ph.D. in Political Science: Gender and Women's Studies focuses on gender and women studies of the foundation in political science theory and methods in the following political science subfields: international relations, comparative politics, Canadian politics, methods, and political theory. Broad training is provided in the discipline and specialization in two major fields of choice is required. Training in feminist research methods and theories is required. Comprehensive exams in two fields are taken in the first and/or second year of study, in consultation with supervisors, field coordinators, and the Graduate Program Director. Participation in a research symposium that brings together gender studies' researchers from across disciplines is mandatory.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend

the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
POLI 700	PhD Research Seminar.	0
POLI 701	Ph.D. General Written Examination First Field.	0
POLI 702	Ph.D. General Written Examination Second Field.	0
POLI 799	Ph.D. Oral Comprehensive Examination.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (33 credits)

33 credits at the 500 or 600 level, chosen as follows:

Major Fields

12 credits chosen in the first major field of which 3 credits must be the core course in the field.

9 credits chosen in the second major field of which 3 credits must be the core course in the field.

Political Theory

3 credits in political theory at the 500 or 600 level.

Methods

3 credits of the following:

or another suitable Advanced Methods course.

Expand allContract all

Course	Title	Credits
POLI 612	Research Methods in Political Science.	3

Gender Courses

3 credits at the 500 level or higher of an option-approved course in consultation with the program advisor.

Remaining Courses

3 credits which may be outside the student's major fields. For students that choose the advanced methods courses as part of the Advanced Research Tools, 3 credits must be the advanced methods courses.

Advanced Research Tools

Language Requirement: Students must pass an advanced-level translation test from a language other than English. If the student's research will involve field work in a country where English is not widely spoken, the test will include an oral component. In selecting a language

to fulfil this requirement, the student must demonstrate in writing how the chosen language is related to his or her research.

OR

Advanced Statistical Methods: To fulfil this requirement, students must complete 3 advanced methods credits (at the 600, or 700 level) in qualitative or quantitative methods, selected in consultation with the student advisor, the Graduate Program Director, and the methods coordinator. Students for whom Methods is one of their major fields will automatically fulfil the Advance Research Tool requirement.

Psychology (Thesis) (M.A.) (45 credits)

Offered by: Psychology (Faculty of Science)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Psychology focuses on research in the field of psychology, culminating in the submission of a thesis. The program emphasizes the skills in critical reading, data collection, and scientific communication. This program typically takes 2 years to complete.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
PSYC 690	Masters Research 1.	15
PSYC 699	Masters Research 2.	12

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
PSYC 601	First Year Research Paper.	6
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Psychology (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a

variety of specialized courses, which include practicum and internship experiences.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

Expand allContract all

Course	Title	Credits
PSYC 701	Doctoral Comprehensive Examination.	0

Complementary Courses (12-24 credits)

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

Expand allContract all

Course	Title	Credits
PSYC 712	Comparative and Physiological Psychology 3.	3
PSYC 715	Comparative and Physiological Psychology 6.	3
PSYC 722	Personality and Social Psychology.	3
PSYC 723	Personality and Social Psychology.	3
PSYC 724	Personality and Social Psychology.	3
PSYC 725	Personality and Social Psychology.	3
PSYC 727	Personality and Social Psychology.	3
PSYC 728	Ethics and Professional Issues.	3
PSYC 729	Theory of Assessment.	3
PSYC 730	Clinical Neuroscience Methods.	3
PSYC 732	Clinical Psychology 1.	3
PSYC 733	Clinical Psychology 2.	3
PSYC 734	Developmental Psychology and Language.	3
PSYC 735	Developmental Psychology and Language.	3
PSYC 736	Developmental Psychology and Language.	3
PSYC 740	Perception and Cognition.	3
PSYC 741	Perception and Cognition.	3
PSYC 742	Perception and Cognition.	3
PSYC 744	Perception and Cognition.	3
PSYC 746	Quantitative and Individual Differences.	3
PSYC 747	Quantitative and Individual Differences.	3
PSYC 748	Quantitative and Individual Differences.	3
PSYC 749	Quantitative and Individual Differences.	3
PSYC 750	Applied Bayesian Statistics.	3

Course	Title	Credits
PSYC 752D1	Psychotherapy and Behaviour Change.	3
PSYC 752D2	Psychotherapy and Behaviour Change.	3
PSYC 753	Health Psychology Seminar 1.	3
PSYC 781	Behavioural Neuroscience Special Topics.	3
PSYC 782	Behavioural Neuroscience Advanced Seminar.	3

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

Expand allContract all

Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Psychology: Behavioural Neuroscience (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Psychology; Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurobiological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise; the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes as determined by the graduate program director.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Complementary Courses(6-18 credits)

6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

Expand allContract all

Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Psychology: Language Acquisition (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
LING 710	Language Acquisition Issues 2.	2
PSYC 701	Doctoral Comprehensive Examination.	0

PSYC 709	Language Acquisition Issues 1.	2	EDSL 627	Instructed Second Language Acquisition Research.	3
SCSD 712	Language Acquisition Issues 4.	2	EDSL 632	Second Language Literacy Development.	3

Complementary Courses (15-32 credits)

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

Expand allContract all

Course	Title	Credits
PSYC 712	Comparative and Physiological Psychology 3.	3
PSYC 715	Comparative and Physiological Psychology 6.	3
PSYC 722	Personality and Social Psychology.	3
PSYC 723	Personality and Social Psychology.	3
PSYC 724	Personality and Social Psychology.	3
PSYC 725	Personality and Social Psychology.	3
PSYC 727	Personality and Social Psychology.	3
PSYC 728	Ethics and Professional Issues.	3
PSYC 729	Theory of Assessment.	3
PSYC 730	Clinical Neuroscience Methods.	3
PSYC 732D1	Clinical Psychology 1.	1.5
PSYC 732D2	Clinical Psychology 1.	1.5
PSYC 733D1	Clinical Psychology 2.	1.5
PSYC 733D2	Clinical Psychology 2.	1.5
PSYC 734	Developmental Psychology and Language.	3
PSYC 735	Developmental Psychology and Language.	3
PSYC 736	Developmental Psychology and Language.	3
PSYC 740	Perception and Cognition.	3
PSYC 741	Perception and Cognition.	3
PSYC 742	Perception and Cognition.	3
PSYC 744	Perception and Cognition.	3
PSYC 746	Quantitative and Individual Differences.	3
PSYC 747	Quantitative and Individual Differences.	3
PSYC 748	Quantitative and Individual Differences.	3
PSYC 749	Quantitative and Individual Differences.	3
PSYC 750	Applied Bayesian Statistics.	3
PSYC 752D1	Psychotherapy and Behaviour Change.	3
PSYC 752D2	Psychotherapy and Behaviour Change.	3
PSYC 753	Health Psychology Seminar 1.	3

At least 3 credits selected from the following list:

Expand allContract all

Course	Title	Credits
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 623	Second Language Learning.	3
EDSL 624	Educational Sociolinguistics.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Public Policy (Non-Thesis) (M.P.P.) (45 credits)

Offered by: School of Public Policy (Faculty of Arts)

Degree: MPP

Program credit weight: 45

Program Description

The Max Bell School of Public Policy's teaching program is a one-year Master of Public Policy; Non-Thesis, with a small student cohort to optimize learning and exchange. Combining courses in the theory of public policy with those covering the complexities of the real-world policy process, the program approaches today's most important policy issues in Canada and around the world from varied perspectives to prepare the next generation of policy leaders. The MPP program aims to place more emphasis than is usual in such programs on developing practical skills crucial to future policy leaders, including conflict resolution, persuasive writing, effective presentations and the briefing of officials.

The Master of Public Policy; Non-Thesis, is directed at early career professionals, normally with two to five years' professional experience, who are interested in developing expertise in the field of public policy. Recent graduates with an exceptional academic record will also be considered. A Bachelor's degree (or equivalent as recognized by McGill University) is required. The ideal applicant will have completed undergraduate courses in Political Science, Economics, Quantitative Methods, and/or Statistics.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
PPOL 602	Microeconomics for Public Policy.	3
PPOL 604	Law and Policy.	3
PPOL 606	Experts, Science and Evidence.	3
PPOL 609	Reasoning About Public Policy.	3
PPOL 620D1	Client-Focused Policy Laboratory .	4.5
PPOL 620D2	Client-Focused Policy Laboratory.	4.5

Complementary Courses (24 credits)

3 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
PPOL 611	Canadian Political and Policy Landscape.	3
PPOL 613	Global Political and Policy Landscape.	3

3 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
PPOL 605	Analytical Methods for Policy Evaluation .	3
PPOL 608	Theory and Practice of Program Evaluation.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
PPOL 601	Global Macroeconomic Policy.	3
PPOL 603	Comparative Democracies.	3
PPOL 607	Information and Media Literacy.	3
PPOL 610	Science and Policy.	3
PPOL 612	U.S. Political and Policy Landscape.	3
PPOL 614	Canada-U.S Policy Relationship.	3
PPOL 615	Climate Policy.	3
PPOL 616	Human Rights and Policymaking.	3
PPOL 617	Indigenous Public Policy.	3
PPOL 618	Special Topics in Pub Policy 1.	3
PPOL 619	Special Topics in Pub Policy 2.	3

4 credits from the following courses:

Expand allContract all

Course	Title	Credits
PPOL 631	Policy Case Study 1.	1
PPOL 632	Policy Case Study 2.	1
PPOL 633	Policy Case Study 3.	1
PPOL 634	Policy Case Study 4.	1
PPOL 635	Policy Case Study 5 .	1
PPOL 636	Policy Case Study 6.	1
PPOL 637	Policy Case Study 7.	1
PPOL 638	Policy Case Study 8.	1

8 credits from the following courses:

Expand allContract all

Course	Title	Credits
PPOL 640	Policymaking in a World of Business .	2
PPOL 641	Rhetoric and Communication of Public Policy.	2
PPOL 642	Policy and Globalization.	2
PPOL 643	Ethical Dimensions of Policymaking .	2
PPOL 644	Stakeholder Management.	2
PPOL 645	Partisan Politics and Policy Process .	2
PPOL 646	Budgeting and Fiscal Policy.	2
PPOL 647	Achieving Policy Transparency .	2
PPOL 648	Race, Inequality, and Public Policy.	2
PPOL 649	Regulatory Systems.	2
PPOL 650	Special Topics in Policy Complexity 1.	2
PPOL 651	Special Topics in Policy Complexity 2.	2
PPOL 652	Special Topics in Policy Complexity 3.	2
PPOL 653	Digital Governance.	2

Religious Studies (Thesis) (M.A.) (45 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) in Religious Studies is a research-intensive program that emphasizes tailored and intensive learning opportunities. The program focuses on skills in critical thinking, literature review, and scientific communication.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
RELG 688	Thesis Research 1.	3
RELG 689	Thesis Research 2.	3
RELG 698	Thesis Research 3.	9
RELG 699	Thesis Research 4.	12

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
RELG 645	Methods in Religious Studies.	3

Complementary Courses (15 credits)

15 credits selected from the 500- or 600-level courses accepted by the School of Religious Studies for the granting of a master's degree.

Language Requirement

Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

Religious Studies (Thesis): Bioethics (M.A.) (45 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) in Religious Studies; Bioethics is offered in collaboration with the Biomedical Ethics Unit. The program focuses on the conceptual frameworks and tools to address fundamental questions about life and the interventions by healthcare in research, policy and practice. The program includes a thesis and practicum on bioethics.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
BIOE 690	M.Sc. Thesis Literature Survey.	3
BIOE 691	M.Sc. Thesis Research Proposal.	3
BIOE 692	M.Sc. Thesis Research Progress Report.	6
BIOE 693	M.Sc. Thesis.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIOE 680	Bioethical Theory.	3
BIOE 681	Bioethics Practicum.	3
RELG 571	Ethics, Medicine and Religion.	3
RELG 645	Methods in Religious Studies.	3

Complementary Courses (9 credits)

9 credits at the 500 or 600 level, deemed necessary or accepted by the base faculty for the granting of a master's degree, in consultation with the supervisor.

Religious Studies (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) Religious Studies; Gender and Women's Studies focuses on cross-disciplinary studies in feminist, women's, and gender studies. The Thesis must focus on research on gender-related issues and feminist research and methodologies.

Thesis Courses

27 credits from:

Course	Title	Credits
RELG 688	Thesis Research 1.	3
RELG 689	Thesis Research 2.	3
RELG 698	Thesis Research 3.	9
RELG 699	Thesis Research 4.	12

Required Courses

6 credits from:

Expand allContract all

Course	Title	Credits
RELG 645	Methods in Religious Studies.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses

12 credits selected from the 500- or 600-level courses accepted by the School of Religious Studies for the granting of a master's degree. Must include within the 12 credits:

Either

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or 3 credits of another 500- or 600-level course in Gender and Women's Studies.

Religious Studies (Non-Thesis) (M.A.) (45 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) in Religious Studies; Non- Thesis is a course-based program that emphasizes engaging and innovative learning opportunities. It focuses on skills in resourceful thinking, academic writing, and communication.

Research Project (9 credits)

Expand allContract all

Course	Title	Credits
RELG 660	M.A. Research Paper 1.	3
RELG 661	M.A. Research Paper 2.	3
RELG 662	M.A. Research Paper 3.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
RELG 555	Honours Seminar.	3
RELG 645	Methods in Religious Studies.	3

Complementary Courses (30 credits)

30 credits of courses selected from the 500- or 600-level courses accepted by the School of Religious Studies for the granting of a master's degree.

Language Requirement

Students are required to give their area committee evidence of reading knowledge of a scholarly language other than English. This language may be either a modern language in which there is a significant amount of scholarship relevant to the student's area of research, or a classical

language relevant to the student's area of research. If a classical language is chosen, it must be in addition to any prerequisite language for the area in question.

Religious Studies (Non-Thesis) (S.T.M.) (45 credits)

Offered by: Religious Studies (Faculty of Arts)

Degree: Master of Sacred Theology

Program credit weight: 45

Program Description

The Master of Sacred Theology (S.T.M.); Non-Thesis is a course-based program that emphasizes intensive and scholarly learning opportunities. The program focuses on skills in literature review, information synthesis, and resourceful thinking. The program is approved by the Association of Theological Schools in the U.S. and Canada.

ATS Accreditation:

The S.T.M. program is fully accredited by the Association of Theological Schools in the U.S. and Canada.

The normal requirement is two years (of two terms each) of full-time study, but the degree may, by permission, be taken on a part-time basis.

Note: Ordination requirements for S.T.M. graduates will normally involve a further year of professional pastoral studies (the In-Ministry Year) provided by the Montreal School of Theology, which is affiliated with the School of Religious Studies.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
RELG 645	Methods in Religious Studies.	3
RELG 646	Research Project 1.	6
RELG 647	Research Project 2.	6

Complementary Courses (30 credits)

18 credits at the 500 level or higher. Course selection approval is required by the Chair of the Religious Studies Graduate Committee.

12 credits from Area Studies listed below.

Expand allContract all

Course	Title	Credits
RELG 644	Biblical Theology.	3
RELG 648	Church History.	3
RELG 652	Christian Theology.	3
RELG 653	Philosophy of Religion.	3
RELG 656	Theological Ethics.	3
RELG 663	Comparative Religion.	3

Students who take the S.T.M.; Non-Thesis as part of their ordination requirements are to choose their courses in consultation with the Principal of the Theological College with which they are associated.

Related courses, at the 500 level or higher, are also available in other departments and must be chosen in consultation with the S.T.M.; Non-Thesis adviser.

Religious Studies (Ph.D.)

Offered by: Religious Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Religious Studies focuses on research engagement with a broad spectrum of critical research involving different interdisciplinary approaches, research and teaching in the various different religious traditions.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
RELG 701	Major Comprehensive Examination.	0
RELG 702	Minor Comprehensive Examination.	0
RELG 703	Oral Comprehensive Examination.	0

Candidates admitted to Ph.D. 1 take a minimum of six graduate seminars during their first year and four seminars during their Ph.D. 2 year; those admitted to Ph.D. 2 must take a minimum of four graduate seminars. If possible, two seminars should be in their area of specialization, and at least one should be at the 700 level.

Language Requirements

Students are required to give their area committee evidence of reading knowledge of two languages other than English. These languages must be chosen from modern languages in which there is a significant amount of scholarship relevant to the student's area of research, or from classical languages relevant to the student's area of research.

Research in some disciplines, or on certain thesis topics, may require proficiency in more than two languages besides English. In that case, additional language requirements may be stipulated by the supervisor.

Doctoral Colloquium

As one of their requirements, all Ph.D. students in residence shall attend the monthly graduate colloquium, at which time a student's thesis project is formally presented and discussed. Each student is

required to present an aspect of his or her thesis research to a meeting of the Doktorklub before the thesis is submitted.

Religious Studies: Gender and Women's Studies (Ph.D.)

Offered by: Religious Studies (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Religious Studies; Gender and Women's Studies focuses on feminist, women's, and gender studies in relation to religious traditions.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Presentation to Doktorklub of student's thesis research.

Required Courses

Expand allContract all

Course	Title	Credits
RELG 701	Major Comprehensive Examination.	0
RELG 702	Minor Comprehensive Examination.	0
RELG 703	Oral Comprehensive Examination.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Students admitted to Ph.D. 1

Students admitted to Ph.D. 1 take a minimum of six (3-credit) graduate seminars during their first year and a minimum of four (3-credit) graduate seminars in Ph.D. 2 including:

Expand allContract all

Course	Title	Credits
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

and one 3-credit graduate seminar with a substantive focus on gender and/or women's studies.

One 3-credit graduate seminar must be at the 700 level.

Students entering into Ph.D. 2

Students entering into Ph.D. 2 are required to take a minimum of four (3-credit) graduate seminars including:

Expand allContract all

Course	Title	Credits			
WMST 601	Feminist Theories and Methods.	3	CAFT 612	Internship 3 in Couple and Family Therapy.	6
WMST 602	Feminist Research Symposium.	3	SWRK 610	Family Treatment.	3
			SWRK 622	Understanding and Assessing Families.	3
			SWRK 623	Couple Therapy.	3
			SWRK 630	Adult Mental Health.	3

and one 3-credit graduate seminar with a substantive focus on gender and/or women's studies.

One 3-credit graduate seminar must be at the 700 level.

Language Requirements

Modern and ancient languages as stipulated by field of study.

Couple and Family Therapy (Non-Thesis) (M.Sc.A.) (60 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Master of Science Applied

Program credit weight: 60

Program Description

This master's-level clinical program (non-thesis) emphasizes clinical understanding and training in couple and family therapy applicable to multidisciplinary clinical professionals in which family systems and related theories can inform clinical practice. The general objectives of the program are to train clinical professionals in couple and family psychotherapy by integrating contemporary theory, research competence and varied approaches to therapy in the understanding and treatment of families today. It will produce graduates with competencies in the assessment and treatment of families across the life cycle with skills that can be applied to specialized psychotherapy practice in health and community settings. Program graduates will fulfil the requirements for both the Couple and Family Therapy permit (OTSTCFQ) and the Psychotherapy permit (OPQ).

Required Courses (57 credits)

Expand allContract all

Course	Title	Credits
CAFT 600	Couple and Family Therapy Pre-Practicum.	3
CAFT 601	Anti-Oppressive Practice in Couple and Family Therapy.	3
CAFT 602	Advanced Assessment in Couple and Family Therapy.	3
CAFT 603	Research Methods for Couple and Family Therapists.	3
CAFT 604	Sex, Sexuality, and Contemporary Issues .	3
CAFT 605	Advanced Family Treatment Across the Lifespan.	3
CAFT 606	Internship 1 in Couple and Family Therapy.	3
CAFT 607	Legal, Ethical and Professional Issues in C & FT.	3
CAFT 608	Human Development Across Lifespan: Couple & Family Therapy.	3
CAFT 609	Advanced Couple Therapy.	3
CAFT 610	Biological Foundations of Behaviour for C&FTs.	3
CAFT 611	Internship 2 in Couple and Family Therapy.	6

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
CAFT 613	Couple and Family Therapy Internal Practicum.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
SWRK 621	Seminar on Trauma and Resilience.	3
SWRK 628	Violence against Women.	3
SWRK 635	Advanced Clinical Seminar: Use of Self.	3
SWRK 655	Seminar on Aging.	3
SWRK 657	Child and Adolescent Mental Health .	3
SWRK 668	Living with Illness, Loss and Bereavement.	3
SWRK 670	Seminar on Caregiving.	3

Social Work (Thesis) (M.S.W.) (45 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Master of Social Work

Program credit weight: 45

Program Description

The School of Social Work at McGill University prepares graduates for careers and leadership in the fields of social work and social welfare. In the M.S.W. program, students develop an understanding of a broad range of theories which inform practice, policy, and research. Envisioned as an opportunity to advance knowledge and skills, students are encouraged to immerse themselves in an area of scholarship and practice related to "Children and Families," "Social Care and Health Studies," and "Community and International Development." In addition, students investigate a subject matter of their choice in one of these broad areas of study through an independent study project or a master's thesis. Through the M.S.W. program, students develop critical and innovative approaches to practice competence and to policy analysis such that they may contribute to both established social services and to new and less developed areas of service provision.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
SWRK 698	Thesis Research 1.	12
SWRK 699	Thesis Research 2.	15

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 653	Research for Social Justice.	3

Complementary Courses (12 credits)

12 credits of SWRK courses at the 500 or 600 level; up to 6 credits in total may be taken outside the School of Social Work.

Social Work (Thesis): Gender and Women's Studies (M.S.W.) (45 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Master of Social Work

Program credit weight: 45

Program Description

The School of Social Work's M.S.W. Thesis – Gender and Women's Studies option is designed for students who have strong research interests and are particularly attracted to feminist theories and research methodologies. This program supports the development of advanced intellectual understanding and specialized research skills centered on gender, sexuality, feminism, and women in relation to "Children and Families," "Social Care and Health Studies," and "Community and International Development."

The thesis must be related to Gender and Women's Studies. The M.S.W. Thesis program includes graduate-level coursework and a research thesis. Students work closely with a Faculty supervisor. There is no field placement in the M.S.W. Thesis – Gender and Women's Studies program.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
SWRK 698	Thesis Research 1.	12
SWRK 699	Thesis Research 2.	15

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 653	Research for Social Justice.	3
WMST 601	Feminist Theories and Methods.	3

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important, not only to candidates who intend to seek admission to the Quebec Professional Order after graduation.

Complementary Courses (9 credits)

3 credits of 500- or 600- level courses in another department or discipline approved as a complementary course to the Option in Gender and Women's Studies by an MSW adviser in the School of Social Work.

6 credits of 500- or 600-level courses selected from the School of Social Work.

3 credits from the following:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

OR 3 credits of 500- or 600-level WMST courses;

Social Work (Non-Thesis) (M.S.W.) (45 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Master of Social Work

Program credit weight: 45

Program Description

The Master of Social Work (MSW); Non-Thesis (45 credit) program focuses on advanced level knowledge and skills regarding a broad range of approaches that inform practice, policy, and research. The program covers two areas of practice: clinical practice with individuals, families, and groups, and, international, community and policy practice. Emphasis on critical and innovative approaches to practice competence and to policy analysis for working in a wide variety of practice settings. This program is open to those with an undergraduate degree in social work only.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
SWRK 527	Advanced Social Work Practice in Quebec.	3
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 653	Research for Social Justice.	3
SWRK 664	Intensive Advanced Field Placement.	12
SWRK 665	Advanced Field Seminar.	3

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Complementary Courses (21 credits)

21 credits of courses at the 500 or 600 level chosen in consultation with school adviser; up to 6 credits in total may be taken outside the School.

Social Work (Non-Thesis): Gender and Women's Studies (M.S.W.) (45 credits)

Offered by: Social Work (Faculty of Arts)

Degree: Master of Social Work

Program credit weight: 45

Program Description

The Graduate Option in Gender and Women's Studies is an interdisciplinary program for students who meet degree requirements in Social Work and who wish to take 6 credits of approved coursework to focus on gender, sexuality, feminist, and women's studies and issues in feminist research and methods.

Required Courses (27 credits)

Expand allContract all		
Course	Title	Credits
SWRK 527	Advanced Social Work Practice in Quebec.	3
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 653	Research for Social Justice.	3
SWRK 664	Intensive Advanced Field Placement.	12
SWRK 665	Advanced Field Seminar.	3
WMST 601	Feminist Theories and Methods.	3

NOTE:

While not a prerequisite for admission, possession of a working knowledge of the French language is important not only to candidates who intend to seek admission to the Quebec professional order after graduation, but also to those who wish to maximize their field placement opportunities during their program. In consultation with the Field Education Coordinator, students may have the option of completing their field requirements at an approved social service agency outside of Quebec.

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all		
Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

OR, 3 credits of WMST at the 500 or 600 level;

OR, 3 credits of 500- or 600-level courses in another department or discipline approved as a complementary course to the Option in Gender and Women's Studies by an MSW adviser in the School of Social Work.

AND 15 credits of 500- or 600-level courses selected from the School of Social Work.

Law & Social Work (Non-Thesis) (Joint B.C.L./J.D & M.S.W.) (132 credits)

Offered by: Law (Faculty of Law)

Degree: BCLJD

Program credit weight: 132

Program Description

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and J.D. degrees for a total of 132 credits.

Required Courses - Social Work (30 credits)

Expand allContract all		
Course	Title	Credits
SWRK 605	Anti-Racist Social Work Practice.	3
SWRK 650	Field Work Practicum 1.	3
SWRK 651	Field Work Practicum 2.	3
SWRK 653	Research for Social Justice.	3
SWRK 660	Field Work Practicum 3.	6
SWRK 691	Social Work / Law Independent Study Project.	12

Complementary Courses - Social Work (15 credits)

15 credits of SWRK courses at the 500 or 600 level. Up to 6 graduate-level credits may be taken outside the School of Social Work with the approval of the Academic Advisor.

Required Courses - Law (46 credits)

First Year

The following 32 credits of courses may be taken only in the first year:

Expand allContract all		
Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5

			Course	Title	Credits
PUB2 101D1	Constitutional Law.	3	CMPL 500	Indigenous Peoples and the State.	3
PUB2 101D2	Constitutional Law.	3	CMPL 504	Feminist Legal Theory.	3
PUB3 116	Foundations.	3	CMPL 511	Social Diversity and Law.	3
			CMPL 516	International Development Law.	3
Second Year			CMPL 565	International Humanitarian Law.	3
The following 13 credits of courses may be taken only in the second year:			CMPL 571	International Law of Human Rights.	3
Expand allContract all			CMPL 573	Civil Liberties.	3
Course	Title	Credits	CMPL 575	Discrimination and the Law.	3
LAWG 210	Legal Ethics and Professionalism.	3	IDFC 500	Indigenous Field Studies.	3
LAWG 220D1	Property.	3	LAWG 503	Inter-American Human Rights.	3
LAWG 220D2	Property.	3	LAWG 505	Critical Engagements with Human Rights.	3
PROC 124	Judicial Institutions and Civil Procedure.	4	LAWG 507	Critical Race Theory Advanced Seminar.	3
			LAWG 508D1	Indigenous Constitutionalism.	3
The following 1 credit course may be taken in any year after completing the first year:			LAWG 508D2	Indigenous Constitutionalism.	3
Expand allContract all			LAWG 509	Indigenous Law Revitalization.	3
Course	Title	Credits	LAWG 582	Disability Law and Policy.	3
PRAC 200	Advocacy.	1	LEEL 369	Labour Law.	3
			LEEL 582	Law and Poverty.	3
			PUB2 105	Public International Law.	3
			PUB2 500	Law and Psychiatry.	3
			PUB2 502	International Criminal Law.	3
			PUB2 551	Immigration and Refugee Law.	3

Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

			Credits
BUS2 561	Insurance.	3	
LAWG 506	Advanced Civil Law Property.	3	
PROC 200	Advanced Civil Law Obligations.	3	
PRV2 270	Law of Persons.	3	
PRV4 548	Administration Property of Another and Trusts.	3	

Common Law Immersion Courses

3 credits from the following list of common law courses:

			Credits
PRV3 200	Advanced Common Law Obligations.	3	
PRV3 534	Remedies.	3	
PRV4 500	Restitution.	3	
PRV4 549	Equity and Trusts.	3	
PRV5 582	Advanced Torts.	3	

Social Diversity, Human Rights and Indigenous Law Courses

3 credits from the following courses:

Expand allContract all

Principles of Canadian Administrative Law

3 credits from the following courses:

			Credits
BUS1 532	Bankruptcy and Insolvency.	3	
BUS2 504	Securities Regulation.	3	
CMPL 539	International Taxation.	3	
CMPL 543	Law and Practice of International Trade.	3	
CMPL 574	Government Control of Business.	3	
CMPL 575	Discrimination and the Law.	3	
CMPL 577	Communications Law.	3	
CMPL 580	Environment and the Law.	3	
LAWG 523	Tax Practice Seminar.	3	
LAWG 561	Privacy Law.	3	
LAWG 581	Health Care Delivery and the Law.	3	
LAWG 583	Public Health Law and Policy.	3	
LEEL 369	Labour Law.	3	
LEEL 570	Employment Law.	3	
LEEL 582	Law and Poverty.	3	
PRV4 545	Land Use Planning.	3	
PRV5 483	Consumer Law.	3	
PUB2 400	The Administrative Process.	3	

			Course	Title	Credits
PUB2 401	Judicial Review of Administrative Action.	3	SWRK 722	Advanced Seminar: Social Work Intervention.	3
PUB2 500	Law and Psychiatry.	3	SWRK 723	Advanced Seminar on Social Policy.	3
PUB2 551	Immigration and Refugee Law.	3			

Elective Courses (28 credits)

Students must take 28 other elective courses offered within the Faculty or approved as credit equivalencies in order to complete the 132-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Advisor to that publication.

Papers written jointly do not satisfy this requirement.

Social Work: McGill/UdeM/UQAM (Ph.D.)

Offered by: Social Work (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

(Offered jointly by McGill and Université de Montréal.)

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all		
Course	Title	Credits
SWRK 701	Comprehensive Examination.	0
SWRK 720	Thought and Theory Development in Social Work.	3
SWRK 721	Advanced Integrative Seminar.	3

Complementary Courses

One of the following courses:

Expand allContract all

One of the following courses:

Expand allContract all

Course	Title	Credits
SWRK 724	Advanced Research Methods and Analysis: Quantitative Data.	3
SWRK 725	Advanced Qualitative Research Methods and Data Analysis.	3

One course in Social Work or a related discipline.

Sociology (Thesis) (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Sociology provides advanced methodological training in sociology. The program culminates in the preparation of a thesis, which is written under the direction of a supervisory committee, and which is expected to report on original research of publishable quality.

Thesis Courses (30 credits)

Expand allContract all		
Course	Title	Credits
SOCI 692	M.A. Thesis 3.	3
SOCI 693	M.A. Thesis 4.	3
SOCI 694	M.A. Thesis 5.	18

Required Courses (12 credits)

All students must have taken the required courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Expand allContract all

Expand allContract all		
Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 652	Current Sociological Theory.	3

Complementary Course (9 credits)

9 credits, chosen from the following:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
SOCI 502	Sociology of Childbearing	3	SOCI 692	M.A. Thesis 3.	3
SOCI 506	Quantitative Methods 3.	3	SOCI 693	M.A. Thesis 4.	3
SOCI 507	Social Change.	3	SOCI 694	M.A. Thesis 5.	18
SOCI 514	Criminology.	3			
SOCI 515	Medicine and Society.	3			
SOCI 519	Gender and Globalization.	3			
SOCI 520	Migration and Immigrant Groups.	3			
SOCI 525	Health Care Systems in Comparative Perspective.	3			
SOCI 526	Indigenous Women's Health and Healthcare .	3			
SOCI 530	Sex and Gender.	3			
SOCI 535	Sociology of the Family.	3			
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3			
SOCI 540	Comparative Ethnicity and Race.	3			
SOCI 545	Sociology of Population.	3			
SOCI 550	Developing Societies.	3			
SOCI 571	Deviance and Social Control.	3			
SOCI 588	Biosociology/Biodemography.	3			
SOCI 590	Social Conflict and Violence.	3			
SOCI 595	Migration Governance and Stratification.	3			
SOCI 601	Qualitative Research Methods 2.	3			
SOCI 621	Fixed and Random Effects.	3			
SOCI 622	Event History Analysis.	3			
SOCI 623	Latent Variable Models.	3			
SOCI 624	Social Networks.	3			
SOCI 631D1	Informing Social Policy with Canadian Data.	3			
SOCI 631D2	Informing Social Policy with Canadian Data.	3			
SOCI 720	Reading in Social Theory.	3			
SOCI 730	Reading and Research.	3			

Sociology (Thesis): Development Studies (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. thesis must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

Thesis Courses (30 credits)

Expand allContract all

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
INTD 657	Development Studies Seminar.	3
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 652	Current Sociological Theory.	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

Expand allContract all

Course	Title	Credits
SOCI 502	Sociology of Childbearing	3
SOCI 506	Quantitative Methods 3.	3
SOCI 507	Social Change.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 590	Social Conflict and Violence.	3
SOCI 601	Qualitative Research Methods 2.	3
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3
SOCI 624	Social Networks.	3
SOCI 720	Reading in Social Theory.	3
SOCI 730	Reading and Research.	3

Sociology (Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (27 credits)

Preparation and completion of a thesis on a topic approved by the supervisor and by participating faculty members in the Gender and Women's Studies program.

Expand allContract all

Course	Title	Credits
SOCI 691	M.A. Thesis 2.	6
SOCI 693	M.A. Thesis 4.	3
SOCI 694	M.A. Thesis 5.	18

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1. ¹	3
SOCI 580	Social Research Design and Practice. ¹	3
SOCI 600	Qualitative Research Methods 1. ¹	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology. ¹	0
SOCI 652	Current Sociological Theory.	3
WMST 601	Feminist Theories and Methods.	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Course (3 credits)

3 credits at the 500, 600, or 700 level including:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or one 3 credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside the Department).

Sociology (Thesis): Population Dynamics (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Sociology ; Population Dynamics program graduate training in sociology with an emphasis on demographic methods and critical population issues. Students will attend at least five of the seminars given in the Social Statistics and Population seminar series. The thesis must be on a topic related to population dynamics and approved by the Population Dynamics Option (PDO) coordinating committee.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
SOCI 692	M.A. Thesis 3.	3
SOCI 693	M.A. Thesis 4.	3
SOCI 694	M.A. Thesis 5.	18

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 545	Sociology of Population.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 626	Demographic Methods.	3
SOCI 652	Current Sociological Theory.	3

Complementary Courses (3 credits)

3 credits at the 500 level or higher related to population dynamics; other courses, at the 500 level or higher, may be approved by the program coordinating committee.

Medical Sociology (Thesis) (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Medical Sociology is offered jointly with the Department of Social Studies of Medicine. The program provides advanced methodological training in sociology and medical sociology. The thesis must be on a topic approved by the supervisor and by participating faculty members in the Department of Social Studies of Medicine.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
SOCI 690	M.A. Thesis 1.	3
SOCI 691	M.A. Thesis 2.	6
SOCI 693	M.A. Thesis 4.	3
SOCI 695	M.A. Thesis 6.	15

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1. ¹	3
SOCI 580	Social Research Design and Practice. ¹	3
SOCI 600	Qualitative Research Methods 1.	3

SOCI 625D1	Professional Development Seminar in Sociology.	0	SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0	SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 652	Current Sociological Theory. ¹	3	SOCI 652	Current Sociological Theory.	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

3 credits, ONE of the following courses:

Expand allContract all

Course	Title	Credits
SOCI 515	Medicine and Society.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3

3 credits (at the 500, 600, or 700 level) in History of Medicine.

Sociology (Non-Thesis) (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Sociology; Non-Thesis provides advanced methodological training in sociology and exposure to research in different areas of sociology.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
SOCI 696	Research Paper 1.	3
SOCI 697	Research Paper 2.	3
SOCI 699	Research Paper 4.	12

Required Courses (18 credits)

All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 603	Bibliographic Methods 1.	3
SOCI 604	Bibliographic Methods 2.	3

Complementary Courses (9 credits)

9 credits (at the 500, 600 or 700 level), which may be in a cognate field, subject to the approval of the graduate committee.

Expand allContract all

Course	Title	Credits
SOCI 506	Quantitative Methods 3.	3
SOCI 507	Social Change.	3
SOCI 514	Criminology.	3
SOCI 515	Medicine and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 571	Deviance and Social Control.	3
SOCI 588	Biosociology/Biodemography.	3
SOCI 590	Social Conflict and Violence.	3
SOCI 595	Migration Governance and Stratification.	3
SOCI 601	Qualitative Research Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3
SOCI 624	Social Networks.	3
SOCI 631D1	Informing Social Policy with Canadian Data.	3
SOCI 631D2	Informing Social Policy with Canadian Data.	3
SOCI 720	Reading in Social Theory.	3
SOCI 730	Reading and Research.	3

Sociology (Non-Thesis): Development Studies (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The research essay must be on a topic relating to development studies, approved by the Development Studies Option (DSO) coordinating committee.

Research Project (18 credits)

Expand allContract all		
Course	Title	Credits
SOCI 696	Research Paper 1.	3
SOCI 697	Research Paper 2.	3
SOCI 699	Research Paper 4.	12

Required Courses (21 credits)

Expand allContract all		
Course	Title	Credits
INTD 657	Development Studies Seminar.	3
SOCI 504	Quantitative Methods 1. ¹	3
SOCI 580	Social Research Design and Practice. ¹	3
SOCI 600	Qualitative Research Methods 1. ¹	3
SOCI 603	Bibliographic Methods 1.	3
SOCI 604	Bibliographic Methods 2.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 652	Current Sociological Theory. ¹	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits of complementary courses at the 500, 600, or 700 level.

Assignments in the selected courses should focus topically on development issues.

Sociology (Non-Thesis): Gender and Women's Studies (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Sociology; Non-Thesis - Gender and Women Studies provides advanced methodological training in sociology and exposure to research in different areas of sociology with a focus on gender and women's studies. The research paper must be on a topic relating to

issues of gender and women's studies and approved by the supervisor and by participating faculty members in the Gender and Women's Studies program.

Research Project (18 credits)

Expand allContract all		
Course	Title	Credits
SOCI 696	Research Paper 1.	3
SOCI 697	Research Paper 2.	3
SOCI 699	Research Paper 4.	12

Required Courses (21 credits)

Expand allContract all		
Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 603	Bibliographic Methods 1.	3
SOCI 604	Bibliographic Methods 2.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 652	Current Sociological Theory.	3
WMST 601	Feminist Theories and Methods.	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar in its place.

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level including:

Expand allContract all		
Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or one 3-credit course on gender/women's studies issues at the 500, 600, or 700 level (may be taken outside of the Department).

Medical Sociology (Non-Thesis) (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Medical Sociology; Non-Thesis is offered jointly with the Department of Social Studies of Medicine. The program provides advanced methodological training in sociology and medical sociology.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
SOCI 696	Research Paper 1.	3
SOCI 697	Research Paper 2.	3
SOCI 699	Research Paper 4.	12

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1. ¹	3
SOCI 580	Social Research Design and Practice. ¹	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 603	Bibliographic Methods 1.	3
SOCI 604	Bibliographic Methods 2.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology. ¹	0
SOCI 652	Current Sociological Theory.	3

¹ All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar at the 500 level or higher in its place.

Complementary Courses (9 credits)

3 credits, ONE of the following courses:

Expand allContract all

Course	Title	Credits
SOCI 515	Medicine and Society.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3

3 credits, one graduate-level course in History of Medicine.

3 credits, one graduate-level course in Social Studies of Medicine.

Sociology (Non-Thesis): Population Dynamics (M.A.) (45 credits)

Offered by: Sociology (Faculty of Arts)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Population Dynamics Option (PDO) is open to Masters (non-thesis) students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview

substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focusses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Research projects must be on a topic relating to population dynamics, approved by the PDO coordinating committee.

Research Project (18 credits)

Expand allContract all

Course	Title	Credits
SOCI 696	Research Paper 1.	3
SOCI 697	Research Paper 2.	3
SOCI 699	Research Paper 4.	12

Required Courses (24 credits)

All students must have taken these courses or take them during the first year of the program. Students granted an exemption from any one or more of these courses by the Graduate Studies Committee must substitute another substantive seminar at the 500 level or higher in its place.

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 545	Sociology of Population.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 603	Bibliographic Methods 1.	3
SOCI 604	Bibliographic Methods 2.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 626	Demographic Methods.	3
SOCI 652	Current Sociological Theory.	3

Complementary Course (3 credits)

- 3 credits at the 500 level or higher related to population dynamics selected from the following:

Expand allContract all

Course	Title	Credits
ECON 634	Economic Development 3.	3
ECON 641	Labour Economics.	3
ECON 734	Economic Development 4.	3
ECON 741	Advanced Labour Economics.	3
ECON 742	Empirical Microeconomics.	3
ECON 744	Health Economics.	3
EPIB 648	Methods in Social Epidemiology.	3
EPIB 681	Global Health: Epidemiological Research.	3

PPHS 501	Population Health and Epidemiology.	3	SOCI 704	Bibliographic Methods 4.	0
PPHS 527	Economics for Health Services Research and Policy.	3	SOCI 705	PhD Comprehensive Examination.	0
PPHS 528	Economic Evaluation of Health Programs.	3	Ph.D. candidates must take a comprehensive examination in two sub-fields within sociology by August of their Ph.D. 3 year. These sub-fields will be chosen from the Department's areas of specialization.		
PPHS 529	Global Environmental Health and Burden of Disease.	3	Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor.		
PPHS 615	Introduction to Infectious Disease Epidemiology.	3	The thesis should be completed within five years after the initial residency period of two to three years.		
SOCI 502	Sociology of Childbearing	3			
SOCI 520	Migration and Immigrant Groups.	3			
SOCI 525	Health Care Systems in Comparative Perspective.	3			
SOCI 526	Indigenous Women's Health and Healthcare .	3			
SOCI 535	Sociology of the Family.	3			
SOCI 588	Biosociology/Biodemography.	3			

Sociology (Ph.D.)

Offered by: Sociology (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Sociology is a professional degree program designed to prepare students for careers in academia as well as research and policy positions in both the public and private sectors. The program focuses on quantitative and qualitative methodology and sub-fields within the discipline. The dissertation should represent a unique contribution to the discipline and to the sub-field. The Ph.D. in Sociology is a professional degree program designed to prepare students for careers in academia as well as research and policy positions in both the public and private sectors. The program focuses on quantitative and qualitative methodology and sub-fields within the discipline. The dissertation should represent a unique contribution to the discipline and to the sub-field.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

A minimum of three years of study is required.

Expand allContract all

Course	Title	Credits
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 702	Ph.D. Proposal Approval.	0
SOCI 703	Bibliographic Methods 3.	0

Complementary Courses (15-27 credits)

12 credits from substantive courses at the 500 level or higher offered by the Department subject to the approval of the Graduate Committee.

Expand allContract all

Course	Title	Credits
SOCI 501	Capitalism, Socialism, and Democracy.	3
SOCI 502	Sociology of Childbearing	3
SOCI 506	Quantitative Methods 3.	3
SOCI 507	Social Change.	3
SOCI 514	Criminology.	3
SOCI 515	Medicine and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 571	Deviance and Social Control.	3
SOCI 588	Biosociology/Biodemography.	3
SOCI 590	Social Conflict and Violence.	3
SOCI 595	Migration Governance and Stratification.	3
SOCI 601	Qualitative Research Methods 2.	3
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3

SOCI 624	Social Networks.	3
SOCI 626	Demographic Methods.	3
SOCI 631D1	Informing Social Policy with Canadian Data.	3
SOCI 631D2	Informing Social Policy with Canadian Data.	3
SOCI 720	Reading in Social Theory.	3
SOCI 730	Reading and Research.	3

3 credits from one of the following streams:

Qualitative Stream

3 credits from the following:

Expand allContract all		Credits
SOCI 601	Qualitative Research Methods 2.	3
SOCI 602	Comparative-Historical Methods.	3

Quantitative Stream

3 credits from the following:

Expand allContract all		Credits
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3

0-12 credits from the following:

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

Expand allContract all		Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 652	Current Sociological Theory.	3

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one must then be substituted in its place.

Sociology: Gender and Women's Studies (Ph.D.)

Offered by: Sociology (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Ph.D in Sociology; Gender and Women's Studies focuses on an interdisciplinary specialization in feminist, women's, and gender studies. The Ph.D. dissertation must be on a topic that significantly engages with issues of gender and/or women and/or feminism.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

A minimum of three years of study is required.

Ph.D. candidates must take a comprehensive examination in two subfields within sociology by August of their Ph.D. 3 year. These fields will be chosen from the Department's areas of specialization.

Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years. Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at: <http://www.mcgill.ca/sociology/faculty> and at <http://www.mcgill.ca/gps/thesis>.

Expand allContract all

Course	Title	Credits
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 702	Ph.D. Proposal Approval.	0
SOCI 703	Bibliographic Methods 3.	0
SOCI 704	Bibliographic Methods 4.	0
SOCI 705	PhD Comprehensive Examination.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Research proposal is subject to Department approval and to approval by the participating faculty members in the Gender and Women's Studies program.

Complementary Courses (9-21 credits)

3 credits from one of the following streams:

Qualitative Stream

3 credits from the following:

Expand allContract all		Credits
SOCI 601	Qualitative Research Methods 2.	3
SOCI 602	Comparative-Historical Methods.	3

Quantitative Stream

3 credits from the following:

Expand allContract all

Course	Title	Credits
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3

6 credits from the following 500-, 600-, or 700-level courses, 3 of the 6 credits must be on Gender & Women's Issues, chosen from among the following:

Expand allContract all

Course	Title	Credits
SOCI 502	Sociology of Childbearing	3
SOCI 506	Quantitative Methods 3.	3
SOCI 507	Social Change.	3
SOCI 514	Criminology.	3
SOCI 515	Medicine and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 545	Sociology of Population.	3
SOCI 550	Developing Societies.	3
SOCI 571	Deviance and Social Control.	3
SOCI 588	Biosociology/Biodemography.	3
SOCI 590	Social Conflict and Violence.	3
SOCI 601	Qualitative Research Methods 2.	3
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3
SOCI 624	Social Networks.	3
SOCI 631D1	Informing Social Policy with Canadian Data.	3
SOCI 631D2	Informing Social Policy with Canadian Data.	3
SOCI 720	Reading in Social Theory.	3
SOCI 730	Reading and Research.	3

0-12 credits from the following:

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 652	Current Sociological Theory.	3

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one, at the 500-level or higher, must then be substituted in its place.

Sociology: Population Dynamics (Ph.D.)

Offered by: Sociology (Faculty of Arts)

Degree: Doctor of Philosophy

Program Description

The Population Dynamics Option (PDO) is open to PhD students in Sociology specializing in Population Dynamics. The purpose of this program is to provide graduate training in demographic methods (including life table analyses) and enhance students' knowledge of critical population issues. As such, students will be required to take a course on demographic methods and an overview substantive course on the key population issues facing societies today. In addition, students will take one complementary course in Sociology; Economics; or Epidemiology, Biostatistics, and Occupational Health, which focusses on a particular population issue such as population health, migration, aging, family dynamics, and labour markets and skills acquisition. Students will attend at least five of the seminars given in the Social Statistics and Population Dynamics Seminar series. Dissertation topics must be related to population dynamics and approved by the PDO coordinating committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

A minimum of three years of study is required.

Expand allContract all

Course	Title	Credits
SOCI 545	Sociology of Population.	3
SOCI 625D1	Professional Development Seminar in Sociology.	0
SOCI 625D2	Professional Development Seminar in Sociology.	0
SOCI 626	Demographic Methods.	3
SOCI 702	Ph.D. Proposal Approval.	0
SOCI 703	Bibliographic Methods 3.	0

SOCI 704	Bibliographic Methods 4.	0	SOCI 720	Reading in Social Theory.	3
SOCI 705	PhD Comprehensive Examination.	0	SOCI 730	Reading and Research.	3

Ph.D. candidates must take a comprehensive examination in two sub-fields within sociology by August of their Ph.D. 3 year. These fields will be chosen from the Department's areas of specialization. In this option, one of these fields must be in Population Dynamics.

Ph.D. candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two to three years.

Further details on the requirements and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Sociology website at www.mcgill.ca/sociology/faculty and at <http://www.mcgill.ca/gps/thesis>.

Complementary Courses (9-21 credits)

3-6 credits must be taken within the Department from the list below:

Expand allContract all		
Course	Title	Credits
SOCI 502	Sociology of Childbearing	3
SOCI 506	Quantitative Methods 3.	3
SOCI 507	Social Change.	3
SOCI 514	Criminology.	3
SOCI 515	Medicine and Society.	3
SOCI 519	Gender and Globalization.	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 526	Indigenous Women's Health and Healthcare .	3
SOCI 530	Sex and Gender.	3
SOCI 535	Sociology of the Family.	3
SOCI 538	Selected Topics in Sociology of Biomedical Knowledge.	3
SOCI 550	Developing Societies.	3
SOCI 571	Deviance and Social Control.	3
SOCI 588	Biosociology/Biodemography.	3
SOCI 590	Social Conflict and Violence.	3
SOCI 601	Qualitative Research Methods 2.	3
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3
SOCI 624	Social Networks.	3
SOCI 631D1	Informing Social Policy with Canadian Data.	3
SOCI 631D2	Informing Social Policy with Canadian Data.	3

0-3 credits from the following:

Expand allContract all

Course	Title	Credits
ECON 634	Economic Development 3.	3
ECON 641	Labour Economics.	3
ECON 734	Economic Development 4.	3
ECON 741	Advanced Labour Economics.	3
ECON 742	Empirical Microeconomics.	3
ECON 744	Health Economics.	3
EPIB 648	Methods in Social Epidemiology.	3
EPIB 681	Global Health: Epidemiological Research.	3
PPHS 501	Population Health and Epidemiology.	3
PPHS 525	Health Care Systems in Comparative Perspective.	3
PPHS 527	Economics for Health Services Research and Policy.	3
PPHS 528	Economic Evaluation of Health Programs.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3
PPHS 615	Introduction to Infectious Disease Epidemiology.	3
SOCI 502	Sociology of Childbearing	3
SOCI 520	Migration and Immigrant Groups.	3
SOCI 525	Health Care Systems in Comparative Perspective.	3
SOCI 535	Sociology of the Family.	3
SOCI 588	Biosociology/Biodemography.	3

3 credits from the following streams:

Qualitative Stream

3 credits from the following:

Expand allContract all

Course	Title	Credits
SOCI 601	Qualitative Research Methods 2.	3

Quantitative Stream

3 credits from the following:

Expand allContract all

Course	Title	Credits
SOCI 620	Quantitative Methods 2.	3
SOCI 621	Fixed and Random Effects.	3
SOCI 622	Event History Analysis.	3
SOCI 623	Latent Variable Models.	3

0-12 credits from the following:

Students who have not taken the courses listed below must make up the deficiencies in addition to the regular coursework:

Expand allContract all

Course	Title	Credits
SOCI 504	Quantitative Methods 1.	3
SOCI 580	Social Research Design and Practice.	3
SOCI 600	Qualitative Research Methods 1.	3
SOCI 652	Current Sociological Theory.	3

If you are admitted at the Ph.D. 1 level and an exemption is obtained for one or more of the four courses above, another one must then be substituted in its place.

Dental Sciences (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) Dental Sciences; Non-Thesis program focuses on theoretical and methodological foundations spanning multiple approaches to health research.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
DENT 601	Quantitative Data Analysis for Oral Health Research.	3
DENT 625	Applied Qualitative Health Research.	3
DENT 663	Principles of Health Research.	1
DENT 668	Practicum Readings in Dentistry and Health Research.	3
DENT 670	Dentistry Community Health Practicum.	6
DENT 671D1	Advanced Research Seminar.	1
DENT 671D2	Advanced Research Seminar.	1
DENT 685	Theory of Dental Public Health.	3
DENT 690	Literature Reviews.	3

Complementary Courses (21 credits)

21 credits from the following:

Expand allContract all

Course	Title	Credits
ANAT 690D1	Cell and Developmental Biology.	3
ANAT 690D2	Cell and Developmental Biology.	3
BMDE 505	Cell and Tissue Engineering.	3
DENT 504	Biomaterials and Bioperformance.	3

DENT 505 Epidemiology and Data Analysis in Primary Care 3
1.

DENT 509 Epidemiology and Data Analysis in Primary Care 3
2.

DENT 625 Applied Qualitative Health Research. 3

DENT 654 Mechanisms and Management of Pain. 3

DENT 664 Health Research Communications. 1

DENT 665 Leadership and Management Skills in Research. 1

DENT 669 Extracellular Matrix Biology. 3

DENT 681 Readings in Dentistry and Health Research 1. 1

DENT 682 Readings in Dentistry and Health Research 2. 2

DENT 683 Readings in Dentistry and Health Research 3. 3

DENT 686 Illness Experience and Social Determinants of Health. 2

DENT 688 Bone Mechanobiology . 3

EDEM 692 Qualitative Research Methods. 3

EPIB 635 Clinical Trials. 3

EPIB 641 Substantive Epidemiology 1. 1

EPIB 669 Special Topics 2. 2

EPIB 671 Cancer Epidemiology and Prevention. 3

EPIB 677 Special Topics 8. 3

EPIB 679 Special Topics 10. 3

EXMD 609 Cellular Methods in Medical Research. 3

EXMD 610 Molecular Methods in Medical Research. 3

PHGY 518 Artificial Cells. 3

PHGY 550 Molecular Physiology of Bone. 3

Other complementary 500- or 600-level courses at the University may be taken with the approval of the director of the program and GPS.

Dental Sciences (Thesis) (M.Sc.) (45 credits)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) in Dental Sciences program focuses on diverse research areas, including biomaterials, mineralized tissues, nanobiotechnology, tissue engineering, pain, epidemiology, public health, Indigenous health, oral health research, dental education, and knowledge translation.

Thesis Courses (24-33 credits)

Expand allContract all

Course	Title	Credits
DENT 650	Thesis Research 1.	3
DENT 651	Thesis Research 2.	6

DENT 652	Thesis Research 3.	9
DENT 653	Thesis Research 4.	15

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
DENT 601	Quantitative Data Analysis for Oral Health Research.	3
DENT 663	Principles of Health Research.	1
DENT 671D1	Advanced Research Seminar.	1
DENT 671D2	Advanced Research Seminar.	1

Complementary Courses (6-15 credits)

6-15 credits chosen from the following courses:

Expand allContract all

Course	Title	Credits
DENT 504	Biomaterials and Bioperformance.	3
DENT 505	Epidemiology and Data Analysis in Primary Care 1.	3
DENT 509	Epidemiology and Data Analysis in Primary Care 2.	3
DENT 610	Introduction to Craniofacial Research.	3
DENT 654	Mechanisms and Management of Pain.	3
DENT 664	Health Research Communications.	1
DENT 665	Leadership and Management Skills in Research.	1
DENT 681	Readings in Dentistry and Health Research 1.	1
DENT 682	Readings in Dentistry and Health Research 2.	2
DENT 683	Readings in Dentistry and Health Research 3.	3
DENT 685	Theory of Dental Public Health.	3
DENT 686	Illness Experience and Social Determinants of Health.	2
DENT 688	Bone Mechanobiology .	3
DENT 690	Literature Reviews.	3
EPIB 621	Data Analysis in Health Sciences.	4
EPIB 635	Clinical Trials.	3
EXMD 610	Molecular Methods in Medical Research.	3

Other complementary 500- or 600-level courses may be taken with the approval of the supervisor or the research director and GPS.

Oral Health Sciences (Ph.D.)

Offered by: Dental Med & Oral Health Sci (Faculty of Dental Medicine and Oral Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Oral Health Sciences provides training for health science researchers in advanced research in oral health problems. It will build upon an approach to scholarly knowledge that embraces discipline

specific training in tandem with an understanding on one's position in research and possibilities for collaboration.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 Credits)

Expand allContract all

Course	Title	Credits
DENT 663	Principles of Health Research.	1
DENT 664	Health Research Communications.	1
DENT 665	Leadership and Management Skills in Research.	1
DENT 671D1	Advanced Research Seminar.	1
DENT 671D2	Advanced Research Seminar.	1
DENT 700	Comprehensive Exam Skills.	1
DENT 701	PhD Comprehensive Examination.	0
DENT 786	Foundations in Oral Health Science.	3

Complementary Courses (6-12 credits)

6-12 credits from the following:¹

Expand allContract all

Course	Title	Credits
DENT 504	Biomaterials and Bioperformance.	3
DENT 610	Introduction to Craniofacial Research.	3
DENT 654	Mechanisms and Management of Pain.	3
DENT 669	Extracellular Matrix Biology.	3
DENT 681	Readings in Dentistry and Health Research 1.	1
DENT 682	Readings in Dentistry and Health Research 2.	2
DENT 683	Readings in Dentistry and Health Research 3.	3
DENT 685	Theory of Dental Public Health.	3
DENT 688	Bone Mechanobiology .	3
DENT 706	Advanced Seminar in Qualitative Health Research.	3

¹ The number of Complementary credits each student must take is determined with their supervisor, depending on the student's background.

Note: Courses at the 500 level or higher in other departments can be chosen in consultation with their supervisors and the program director.

Oral Medicine (Gr. Dip.) (30 credits)

Offered by: Dental Medicine and Oral Health Sciences (Faculty of Dental Medicine and Oral Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Oral Medicine provides specialty education of clinical practice supported by the appropriate foundations of knowledge and teaching. Training includes diagnosis and management of oral mucosal diseases, temporal mandibular joint disorders (TMD) and orofacial pain and other neurosensory disorders, oral manifestations of systemic disease, non-surgical salivary gland disorders, and oral/dental management of complex, medically compromised patients. Successful completion of this three-year program leads to eligibility to sit the Royal College of Dentists (Canada) Fellowship and specialty exam.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
DENT 606	Evidence-Based Oral Medicine.	2
DENT 608	Pharmacology Applied to Oral Medicine.	3
DENT 611	Management of Medically Complex Patients.	3
DENT 624	Principles of Dental Pharmacology.	3
DENT 642	Oral/Maxillofacial Radiology 1	3
DENT 643	Oral/Maxillofacial Radiology 2	3
DENT 656	General Pathology .	3
DENT 666	Interdisciplinary/Interprofessional Approaches.	1
DENT 676	Orofacial Pain and Sleep Medicine	3
DENT 677	Oral Medicine/Maxillofacial Pathology 1	3
DENT 678	Oral Medicine/Maxillofacial Pathology 2	3

Counselling Psychology (Non-Thesis) (M.A.): Professional/Internship (60 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

** This program is currently closed to admissions **.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_cou....

Required Internship (24 credits)

Expand allContract all

Course	Title	Credits
EDPC 677	Internship Research Seminar: Quantitative Studies.	3

EDPC 678	Internship Research Seminar: Qualitative Studies.	3
EDPC 679D1	Internship: General 1.	3
EDPC 679D2	Internship: General 1.	3
EDPC 683	Practicum in Psychological Testing: Personality Assessment.	3
EDPC 684	Practicum in Psychological Testing: Cognitive Assessment.	3
EDPC 685D1	Internship: Vocational and Rehabilitation Counselling.	3
EDPC 685D2	Internship: Vocational and Rehabilitation Counselling.	3

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
EDPC 606	Theories of Intervention 1.	3
EDPC 607	Theories of Counselling 2.	3
EDPC 608	Group Counselling: Theory.	3
EDPC 609	Psychological Testing 1.	3
EDPC 615	Assessment and Diagnosis 1.	3
EDPC 618	Professional Ethics and the Law.	3
EDPC 624	Group Counselling: Practice.	3
EDPC 662	Career Psychology.	3
EDPC 665D1	Practicum.	3
EDPC 665D2	Practicum.	3
EDPE 622	Multiculturalism and Gender.	3

Elective Courses (3 credits)

The following courses may be offered periodically and taken to complete or exceed the academic requirements. Electives may also be chosen from other courses offered by the Department or other departments of the University. Choice of electives not listed below requires the approval of the Program Director.

Expand allContract all

Course	Title	Credits
EDPC 616	Individual Reading Course.	3
EDPC 670	Current Trends in Counselling.	3

Counselling Psychology (Non-Thesis) (M.A.): Project (60 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

This program is designed to produce graduates with introductory academic preparation for research or clinical careers in counselling psychology. Training is provided in the research domain through

coursework in data analysis and a research project. Clinical preparation is initiated in the program through coursework in ethics, intervention, assessment, psychological testing, and multicultural issues and through a practicum. Most coursework is taken during the student's first year of studies while beginning work on their research projects. In their second year, students gain practical experience via a practicum in the Department's Psychoeducational and Counselling Clinic while also completing the majority of their work on the research project. The degree alone **does not** fulfil the requirements for membership in the Ordre des psychologues du Québec (OPQ).

Required Courses (57 credits)

Expand allContract all

Course	Title	Credits
EDPC 606	Theories of Intervention 1.	3
EDPC 609	Psychological Testing 1.	3
EDPC 615	Assessment and Diagnosis 1.	3
EDPC 619	Research Project 1.	3
EDPC 620	Research Project 2.	3
EDPC 621	Research Project 3.	3
EDPC 625	Clinic Practicum 1.	6
EDPC 626	Clinic Practicum 2.	6
EDPC 628	Research Project 4.	3
EDPC 629	Research Project 5.	3
EDPC 630	Research Project 6.	3
EDPC 662	Career Psychology.	3
EDPC 683	Practicum in Psychological Testing: Personality Assessment.	3
EDPC 684	Practicum in Psychological Testing: Cognitive Assessment.	3
EDPE 622	Multiculturalism and Gender.	3
EDPE 627	Ethical and Professional Practice of Psychology.	3
EDPE 676	Intermediate Statistics.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Counselling Psychology (Ph.D.)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

Students pursuing a Ph.D. in Counselling Psychology take a combination of theoretical, practical, and research-based courses

throughout the duration of their degree. The program draws upon a number of different sciences (including developmental, social, career and neuropsychology and personality theory) to develop critically astute researchers and exceptionally skilled clinicians. Building on the M.A. in Counselling Psychology (Project concentration), or equivalent, the program offers opportunities in Practicum, Supervision, and full-year Internships to develop clinical skills while also working toward the completion of a doctoral dissertation (thesis). The Ph.D. program, aims to:

1. Contribute to the advancement of knowledge in the field of counselling psychology
2. Practice from strong evidence base
3. Take a leadership role in community, professional, and university organizations in counselling psychology

Graduates of the program will be prepared to assume careers in education and community settings, including faculty positions, counselling and psychological positions on the staff of university and college mental health centres, and professional positions in psychological agencies offering preventative mental health services. The program is currently accredited by the Canadian Psychological Association (CPA), and the *Ordre des psychologues du Québec* (OPQ) (Please note that the APA no longer accredits programs outside of the United States of America). Graduates are eligible for licensure in Quebec.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
EDPC 701	Comprehensive Examination.	0
EDPC 702	Assessment and Diagnosis 2.	3
EDPC 714	Theory / Models: Family Therapy.	3
EDPC 720	Consultation and Program Evaluation.	3
EDPC 780	Supervision.	6
EDPC 782	Doctoral Field Experience.	6
EDPC 786	Proposal Preparation and Defense.	6
EDPE 712	Neurological Bases of Behaviour Across Lifespan.	3

Required Internship (24 credits)

Expand allContract all

Course	Title	Credits
EDPC 795	Pre-doctoral Internship.	24

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Elective Courses (6 credits)

Two courses that must be at the 500, 600, or 700 level. Electives are on topics related to specialized interests and must be approved by the supervisor.

School/Applied Child Psychology (Non-Thesis) (M.A.) (60 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

The MA in School/Applied Child Psychology (SACP) is a research-based, non-thesis degree that requires completion of a research project per program guidelines. SACP at McGill prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Coursework, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill's scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill's School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill become leaders in research and higher education, school-based practice, hospital-based positions, independent practice, mental health centres, and policy-making roles.

Typically, students entering the M.A. program choose to apply to the Ph.D. in School/Applied Child Psychology program which builds upon the foundation gained in the M.A. degree. Upon completion of the M.A. and Ph.D. programs, students are eligible for licensure as Psychologists with the Ordre des psychologues du Quebec (OPQ).

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
EDPE 620	Developmental Psychopathology.	3
EDPE 622	Multiculturalism and Gender.	3
EDPE 627	Ethical and Professional Practice of Psychology.	3
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3

EDPI 654	Instruction/Curriculum Adaptation.	3
EDSP 600D1	School Psychology Seminar.	1.5
EDSP 600D2	School Psychology Seminar.	1.5
EDSP 609	Introduction to Cognitive Assessment.	3
EDSP 610	Introduction to Psycho-educational Assessment.	3
EDSP 611	History, Theory and Best Practices in School Psychology.	3
EDSP 619	Child and Adolescent Therapy.	3
EDSP 650D1	Professional Practice in School Setting.	1.5
EDSP 650D2	Professional Practice in School Setting.	1.5
EDSP 682D1	Psycho-Educational Assessment & Intervention Practicum.	3
EDSP 682D2	Psycho-Educational Assessment & Intervention Practicum.	3
EDSP 691	Research Project 1.	3
EDSP 692	Research Project 2.	3
EDSP 693	Research Project 3.	3
EDSP 694	Research Project 4.	3
EDSP 695	Research Project 5.	3
EDSP 696	Research Project 6.	3

School/Applied Child Psychology (Ph.D.)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

The School/Applied Child Psychology program at McGill University prepares the next generation of school psychologists to provide state of the art educational and mental health services to children and adolescents from birth to 21 years old. Course work, clinical experiences, field and community service, and research activities are designed to enhance and develop the professional skills and the knowledge base of our students. In McGill's scientist-practitioner training model, research supports and improves our clinical activities; and clinical activities support and inspire our research. McGill's School/Applied Child Psychology faculty and students are among the most productive research units in North America. Professional school psychologists educated at McGill become leaders in research and higher education, school-based practice, hospital-based positions, independent practice, mental health centres, and policy making roles.

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_cou....

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge

in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Comprehensive Exam

Expand allContract all

Course	Title	Credits
EDSP 701	Comprehensive Examination.	0

Required Courses (60 credits)

24 credits:

Expand allContract all

Course	Title	Credits
EDPC 714	Theory / Models: Family Therapy.	3
EDPE 712	Neurological Bases of Behaviour Across Lifespan.	3
EDSP 702	Selected Topics in School/Applied Child Psychology 2.	3
EDSP 705D1	Practicum: School Psychology.	3
EDSP 705D2	Practicum: School Psychology.	3
EDSP 710	Consultation in School Psychology.	3
EDSP 715D1	Theory and Practice of Supervision.	3
EDSP 715D2	Theory and Practice of Supervision.	3

Field Placement (12 credits)

Expand allContract all

Course	Title	Credits
EDSP 721D1	Field Placement 1: School Psychology.	3
EDSP 721D2	Field Placement 1: School Psychology.	3
EDSP 722D1	Field Placement 2: School Psychology.	3
EDSP 722D2	Field Placement 2: School Psychology.	3

Internship (24 credits)

Expand allContract all

Course	Title	Credits
EDSP 725D1	Internship: School Psychology.	12
EDSP 725D2	Internship: School Psychology.	12

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

School/Applied Child Psychology (Post-Ph.D.) (Gr. Dip.) (66 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Program credit weight: 66

Program Description

Note: Admission to this program is currently suspended

For more information, see www.mcgill.ca/study/faculties/education/graduate/gps_edu_educational_cou....

Required Courses and Clinic-based Practica (30 credits)

The program will be individually tailored to each accepted student in respect of previous studies and experience. Students will not be asked to repeat a course on a topic in which they can demonstrate a high level of competence. The following are expected to be most often required of students.

Course	Title	Credits
EDPC 609	Psychological Testing 1.	3
EDPC 610	Psychological Testing 2.	3
EDPC 618	Professional Ethics and the Law.	3
EDPC 682D1	Practicum: Psychological Testing.	3
EDPC 682D2	Practicum: Psychological Testing.	3
EDPC 714	Theory / Models: Family Therapy.	3
EDPE 619	Child and Adolescent Therapy.	3
EDPE 625	Practicum 1: School Psychology.	3
EDPE 626	Practicum 2: School Psychology.	3
EDPE 710	Consultation in School Psychology.	3

Complementary Courses - Field Placements

Two days per week, one semester each; students select two of these three field experiences; placement in a school covering all grades may be applied to either EDPE 721 School Psychology: Elementary or EDPE 722 School Psychology: Secondary.

Course	Title	Credits
EDPE 721	School Psychology: Elementary.	6
EDPE 722	School Psychology: Secondary.	6
EDPE 723	School Psychology: Community.	6

Internship

One year full time or two years half-time

Course	Title	Credits
EDPE 725	Internship 1 - School Psychology.	12
EDPE 726	Internship 2 - School Psychology.	12

Students are not required to demonstrate knowledge of a second language within this program; however, any student wishing to be licensed as a professional psychologist in Quebec must have a working

knowledge of French. Accreditation status may be confirmed by contacting the accrediting bodies.

Professional Accreditation

All elements of this Post-doctoral Graduate Diploma are selected from the professional components of the Ph.D. in School/Applied Child Psychology, which is accredited in the School Psychology category by the American Psychological Association (APA). Graduates of a respecialization program are normally accorded the same recognition as graduates of the accredited program.

The Ph.D. is approved by the Ordre des psychologues du Québec (OPQ), which has recommended the final stage of professional recognition to the Office des professions of the Government of Quebec. Once this accreditation is confirmed, however, graduates of the Post-doctoral Graduate Diploma will not be automatically eligible for membership in the OPQ and the right to practise professional psychology in Quebec. Candidates wishing to practise in Quebec will be required to apply to the OPQ for the recognition of equivalent qualifications.

School/Applied Child Psychology (Psy.D)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Psychology

Program Description

The Doctor of Psychology in School/Applied Psychology focuses on providing psychological, educational and mental health services to children and adolescents from birth to 21 years old. The program includes clinical experience, field and community service, and research activities.

Required Courses (72 credits)

Expand allContract all

Course	Title	Credits
EDPC 714	Theory / Models: Family Therapy.	3
EDPE 712	Neurological Bases of Behaviour Across Lifespan.	3
EDSP 702	Selected Topics in School/Applied Child Psychology 2.	3
EDSP 705D1	Practicum: School Psychology.	3
EDSP 705D2	Practicum: School Psychology.	3
EDSP 710	Consultation in School Psychology.	3
EDSP 715D1	Theory and Practice of Supervision.	3
EDSP 715D2	Theory and Practice of Supervision.	3

Research Project

Expand allContract all

Course	Title	Credits
EDSP 691	Research Project 1.	3
EDSP 692	Research Project 2.	3
EDSP 693	Research Project 3.	3
EDSP 694	Research Project 4.	3

Field Placement

Expand allContract all

Course	Title	Credits
EDSP 721D1	Field Placement 1: School Psychology.	3
EDSP 721D2	Field Placement 1: School Psychology.	3
EDSP 722D1	Field Placement 2: School Psychology.	3
EDSP 722D2	Field Placement 2: School Psychology.	3

Internship

Expand allContract all

Course	Title	Credits
EDSP 725D1	Internship: School Psychology.	12
EDSP 725D2	Internship: School Psychology.	12

Complementary Course (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Counselling Psychology (Psy.D.)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Psychology

Program Description

The Doctor of Psychology in Counselling Psychology focuses on the positive growth, well being, and mental health of individuals. The program includes clinical experiences, field and community service, and research activities.

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
EDPC 702	Assessment and Diagnosis 2.	3
EDPC 714	Theory / Models: Family Therapy.	3
EDPC 720	Consultation and Program Evaluation.	3
EDPC 780	Supervision.	6
EDPC 782	Doctoral Field Experience.	6
EDPE 712	Neurological Bases of Behaviour Across Lifespan.	3

Research Project

Expand allContract all

Course	Title	Credits
EDPC 619	Research Project 1.	3
EDPC 620	Research Project 2.	3

EDPC 621	Research Project 3.	3
EDPC 628	Research Project 4.	3

Internship

Expand allContract all

Course	Title	Credits
EDPC 795	Pre-doctoral Internship.	24

Complementary Courses (6 credits)

6 credits from the following:

Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Elective Courses (6 credits)

6 credits at the 500 level or higher, which are on topics related to specialized interests and must be approved by the supervisor.

Educational Psychology (Non-Thesis) (M.A.) (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 48

Program Description

This program is currently not offered.

Educational Psychology (Non-Thesis) (M.Ed.): General Educational Psychology (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Education

Program credit weight: 48

Program Description

The M.Ed. in Educational Psychology; Non-Thesis-General Educational Psychology focuses on core areas of educational psychology, including learning theories, human development, diversity, and inclusion.

Application towards the growth and enhancement of knowledge and practice in a variety of formal and informal educational settings.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
EDPE 502	Theories of Human Development.	3
EDPE 535	Instructional Design.	3

EDPE 575	Statistics for Practitioners.	3
EDPE 602	Uses of Research Findings in Education.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 670	Educational Assessment and Evaluation.	3
EDPI 642	Inclusion: Past, Present and Future.	3

Complementary Courses (24 credits)

24 credits from the following:

Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 505	Crisis Intervention Processes.	3
EDPC 507	Advocacy, Outreach and Leadership.	3
EDPC 540	Social Responsibility and Relationships in Digital Age.	3
EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3
EDPE 515	Gender Identity Development.	3
EDPE 555	Introduction to Learning Sciences	3
EDPE 595	Seminar in Special Topics 1 .	3
EDPE 596	Seminar in Special Topics 2.	3
EDPE 616	Cognitive Development.	3
EDPE 620	Developmental Psychopathology.	3
EDPE 623	Social-Emotional Development.	3
EDPE 636	Motivation and Instruction.	3
EDPE 640	Emerging Technologies for Educational Change.	3
EDPE 663	Learning Environments.	3
EDPE 664	Critical Thinking	3
EDPE 666	Advanced Topics in Learning Sciences	3
EDPE 699D1	Special Activity.	6
EDPE 699D2	Special Activity.	6
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 539	Field Work 1.	3
EDPI 540	Field Work 2.	3
EDPI 543	Family, School and Community.	3
EDPI 645	Assessment For Effective Intervention.	3
EDPI 654	Instruction/Curriculum Adaptation.	3
EDPI 656D1	Community-Based Field Work .	3
EDPI 656D2	Community-Based Field Work.	3

EDPI 665	Teaching of Reading.	3	EDPC 507	Advocacy, Outreach and Leadership.	3
EDPI 667	Promoting Social and Emotional Well-Being.	3	EDPC 540	Social Responsibility and Relationships in Digital Age.	3

Elective Courses (3 credits)

3 credits at the 500- or 600-level of courses offered by the Department or from other departments or faculties with approval of the Program Director.

Educational Psychology (Non-Thesis) (M.Ed.): General Educational Psychology: Project (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Education

Program credit weight: 48

Program Description

The M.Ed. in Educational Psychology: Non-Thesis - General Educational Psychology-Project focuses on core areas of educational psychology, including learning theories, human development, diversity, and inclusion. Application towards the growth and enhancement of knowledge and practice in a variety of formal and informal educational settings. Provides an opportunity to focus on an issue in the field of educational psychology by completing a research project.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
EDPE 502	Theories of Human Development.	3
EDPE 535	Instructional Design.	3
EDPE 575	Statistics for Practitioners.	3
EDPE 602	Uses of Research Findings in Education.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 670	Educational Assessment and Evaluation.	3
EDPI 642	Inclusion: Past, Present and Future.	3
EDPI 691	Research Project 1.	3
EDPI 692	Research Project 2.	3
EDPI 693	Research Project 3.	3
EDPI 694	Research Project 4.	3

Complementary Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 505	Crisis Intervention Processes.	3

EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3
EDPE 515	Gender Identity Development.	3
EDPE 555	Introduction to Learning Sciences	3
EDPE 595	Seminar in Special Topics 1.	3
EDPE 596	Seminar in Special Topics 2.	3
EDPE 616	Cognitive Development.	3
EDPE 620	Developmental Psychopathology.	3
EDPE 623	Social-Emotional Development.	3
EDPE 636	Motivation and Instruction.	3
EDPE 640	Emerging Technologies for Educational Change.	3
EDPE 663	Learning Environments.	3
EDPE 664	Critical Thinking	3
EDPE 666	Advanced Topics in Learning Sciences	3
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 543	Family, School and Community.	3
EDPI 645	Assessment For Effective Intervention.	3
EDPI 654	Instruction/Curriculum Adaptation.	3
EDPI 665	Teaching of Reading.	3
EDPI 667	Promoting Social and Emotional Well-Being.	3

Educational Psychology (Non-Thesis) (M.Ed.): Inclusive Education (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Education

Program credit weight: 48

Program Description

The M.Ed. in Educational Psychology: Non-Thesis-Inclusive Education focuses on the major theories and practices in the field of inclusive education, including diversity in development, and ecological models of teaching, learning, and assessment. Application in school, community, and other settings to develop inclusive practices.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
EDPE 502	Theories of Human Development.	3
EDPE 575	Statistics for Practitioners.	3
EDPE 602	Uses of Research Findings in Education.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPI 543	Family, School and Community.	3
EDPI 642	Inclusion: Past, Present and Future.	3

EDPI 645	Assessment For Effective Intervention.	3
EDPI 654	Instruction/Curriculum Adaptation.	3
EDPI 665	Teaching of Reading.	3
EDPI 667	Promoting Social and Emotional Well-Being.	3

Complementary Courses (18 credits)

18 credits from the following:

Expand allContract all		
Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 505	Crisis Intervention Processes.	3
EDPC 507	Advocacy, Outreach and Leadership.	3
EDPC 540	Social Responsibility and Relationships in Digital Age.	3
EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3
EDPE 515	Gender Identity Development.	3
EDPE 595	Seminar in Special Topics 1.	3
EDPE 596	Seminar in Special Topics 2.	3
EDPE 640	Emerging Technologies for Educational Change.	3
EDPE 699D1	Special Activity.	6
EDPE 699D2	Special Activity.	6
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 539	Field Work 1.	3
EDPI 540	Field Work 2.	3
EDPI 656D1	Community-Based Field Work .	3
EDPI 656D2	Community-Based Field Work.	3

Educational Psychology (Non-Thesis) (M.Ed.): Inclusive Education: Project (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Education

Program credit weight: 48

Program Description

The M.Ed. in Educational Psychology: Non-Thesis-Inclusive Education-Project focuses on the major theories and practices in the field of inclusive education, including diversity in development, and ecological models of teaching, learning, and assessment. Application in school, community, and other settings to develop inclusive practices. Provides

an opportunity to focus on an issue in the field of inclusive education by completing a research project.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
EDPE 502	Theories of Human Development.	3
EDPE 575	Statistics for Practitioners.	3
EDPE 602	Uses of Research Findings in Education.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPI 543	Family, School and Community.	3
EDPI 642	Inclusion: Past, Present and Future.	3
EDPI 645	Assessment For Effective Intervention.	3
EDPI 654	Instruction/Curriculum Adaptation.	3
EDPI 665	Teaching of Reading.	3
EDPI 667	Promoting Social and Emotional Well-Being.	3
EDPI 691	Research Project 1.	3
EDPI 692	Research Project 2.	3
EDPI 693	Research Project 3.	3
EDPI 694	Research Project 4.	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all		
Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 503	Intersectional Relationships and Sexualities.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 505	Crisis Intervention Processes.	3
EDPC 507	Advocacy, Outreach and Leadership.	3
EDPC 540	Social Responsibility and Relationships in Digital Age.	3
EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3
EDPE 515	Gender Identity Development.	3
EDPE 595	Seminar in Special Topics 1.	3
EDPE 596	Seminar in Special Topics 2.	3
EDPE 640	Emerging Technologies for Educational Change.	3
EDPE 676	Intermediate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 539	Field Work 1.	3
EDPI 540	Field Work 2.	3

Educational Psychology (Non-Thesis) (M.Ed.): Learning Sciences (48 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Education

Program credit weight: 48

Program Description

The M.Ed. in Educational Psychology; Non-Thesis - Learning Sciences focuses on the study of applied methods and data science and on teaching and learning in formal and informal contexts, including cognitive, social, and affective processes. Application in methods and data science include data mining and machine learning. Application in instructional design includes the use of technology, program/curriculum development and evaluation. The program includes two streams: Applied Methods and Data Science, and Science of Learning and Instruction.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPE 555	Introduction to Learning Sciences	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 636	Motivation and Instruction.	3
EDPE 640	Emerging Technologies for Educational Change.	3
EDPE 663	Learning Environments.	3

Complementary Courses (33 credits)

3 credits from the following:

Methods

Expand allContract all

Course	Title	Credits
EDPE 602	Uses of Research Findings in Education.	3
EDPE 605	Research Methods.	3

Statistics

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EDPE 676	Intermediate Statistics.	3

15 credits from the following:

Expand allContract all

Course	Title	Credits
EDPC 502	Group Processes and Diversity.	3
EDPC 504	Communication and Critical Conflict Resolution.	3
EDPC 507	Advocacy, Outreach and Leadership.	3

EDPC 540	Social Responsibility and Relationships in Digital Age.	3
EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3
EDPE 502	Theories of Human Development.	3
EDPE 664	Critical Thinking	3
EDPE 668	Advanced Seminar in Learning Sciences.	3
EDPE 699D1	Special Activity.	6
EDPE 699D2	Special Activity.	6
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 527	Creativity and its Cultivation.	3
EDPI 539	Field Work 1.	3
EDPI 540	Field Work 2.	3
EDPI 654	Instruction/Curriculum Adaptation.	3

12 credits from one of the following two streams:

Stream 1: Science of Learning and Instruction

Expand allContract all

Course	Title	Credits
EDPE 535	Instructional Design.	3
EDPE 656	Applied Theory/Methods in the Learning Sciences.	3
EDPE 666	Advanced Topics in Learning Sciences	3
EDPE 670	Educational Assessment and Evaluation.	3
EDPI 665	Teaching of Reading.	3

Stream 2: Applied Methods and Data Science

Expand allContract all

Course	Title	Credits
EDPE 510	Machine Learning in Society	3
EDPE 561	Machine Learning: Theory & Applications	3
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Educational Psychology (Thesis) (M.A.): Health Professions Education (45 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) Educational Psychology (Thesis); Health Professions Education focuses on the practice of teaching and learning as they happen in the health professions and throughout the lifespan.

Student admission and supervision is done jointly with the Institute of Health Sciences Education (IHSE).

Thesis Courses (18 credits)

Expand allContract all

Course	Title	Credits
EDPE 604	Thesis 1.	3
EDPE 607	Thesis 2.	3
EDPE 693	Thesis 3.	3
EDPE 694	Thesis 4.	3
EDPE 695	Thesis 5.	6

Prerequisite Course (or equivalent) (3 credits)

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPE 605	Research Methods.	3
EDPE 637	Issues in Health Professions Education.	3
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3
EDPH 689	Teaching and Learning in Higher Education.	3

Complementary Courses (12 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 535	Instructional Design.	3
EDPE 555	Introduction to Learning Sciences	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 656	Applied Theory/Methods in the Learning Sciences.	3
EDPE 663	Learning Environments.	3
EDPE 664	Critical Thinking	3
EDPE 666	Advanced Topics in Learning Sciences	3
EDPE 668	Advanced Seminar in Learning Sciences.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

or other 500-, or 600-level courses offered by the Department and with the approval of the supervisor and the Program Director.

Educational Psychology (Thesis) (M.A.): Human Development (45 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts (M.A.) Educational Psychology (Thesis): Human Development concentration focuses on core areas of human development such as cognitive, language, social, personality, and gender development among children and adolescents with diverse trajectories and from various family, educational and community contexts. The program is unique in examining developmental trajectories from a variety of interdisciplinary perspectives. The student's thesis should focus on an issue in the field of human development related to educational psychology.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDPE 604	Thesis 1.	3
EDPE 607	Thesis 2.	3
EDPE 693	Thesis 3.	3
EDPE 694	Thesis 4.	3
EDPE 695	Thesis 5.	6
EDPE 696	Thesis 6.	6

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPE 502	Theories of Human Development.	3
EDPE 605	Research Methods.	3
EDPE 632D1	Research Seminar.	0
EDPE 632D2	Research Seminar.	0
EDPE 672	Human Development Seminar 1.	3
EDPE 673	Human Development Seminar 2.	3
EDPE 676	Intermediate Statistics.	3

Complementary Courses (6 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDPE 515	Gender Identity Development.	3	EDPE 510	Machine Learning in Society	3
EDPE 616	Cognitive Development.	3	EDPE 561	Machine Learning: Theory & Applications	3
EDPE 623	Social-Emotional Development.	3	EDPE 636	Motivation and Instruction.	3
EDPI 642	Inclusion: Past, Present and Future.	3	EDPE 640	Emerging Technologies for Educational Change.	3
			EDPE 664	Critical Thinking	3
			EDPE 687	Qualitative Methods in Educational Psychology.	3

or other 500-, 600-, or 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

Educational Psychology (Thesis) (M.A.): Learning Sciences (45 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Master of Arts

Programs credit weight: 45

Program Description

The M.A. in Educational Psychology; Learning Sciences focuses on educational research, its application to practice, research design, and data analytic techniques. Exploration and application of contemporary psychological and educational theories and empirical studies in the science of learning and instruction; self-regulation, motivation, and emotion; educational technology; and applied methods and data science.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDPE 604	Thesis 1.	3
EDPE 607	Thesis 2.	3
EDPE 693	Thesis 3.	3
EDPE 694	Thesis 4.	3
EDPE 695	Thesis 5.	6
EDPE 696	Thesis 6.	6

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
EDPE 605	Research Methods.	3
EDPE 656	Applied Theory/Methods in the Learning Sciences.	3
EDPE 663	Learning Environments.	3
EDPE 666	Advanced Topics in Learning Sciences	3
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

or other 500-, or 600-level courses offered by the Department and with the approval of the supervisor and the Program Director.

Educational Psychology (Ph.D.): Human Development

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

The Ph.D. Educational Psychology: Human Development focuses on core areas of human development such as cognitive, language, social, personality, and gender development among children and adolescents with diverse trajectories and from various family, educational and community contexts. The program is unique in examining developmental trajectories from a variety of interdisciplinary perspectives. The student's dissertation should focus on an issue in the field of human development related to educational psychology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Expand allContract all

Course	Title	Credits
EDPE 683	Human Development Seminar 3.	3
EDPE 686	Human Development Seminar 4.	3

EDPE 708	Comprehensive Examination.	0
EDPH 689	Teaching and Learning in Higher Education.	3

Complementary Courses (15 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

9 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 620	Developmental Psychopathology.	3
EDPI 642	Inclusion: Past, Present and Future.	3
EDPI 656D1	Community-Based Field Work .	3
EDPI 656D2	Community-Based Field Work.	3
EDPI 665	Teaching of Reading.	3

Or other 600- and 700-level courses offered by the Department, which must be approved by the Supervisor and Program Director.

Educational Psychology (Ph.D.): Learning Sciences

Offered by: Educational & Counselling Psych (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Educational Psychology; Learning Sciences focuses on theory and research on understanding and improving learning and teaching in formal and informal educational settings including K-12 and post-secondary institutions, the workplace, professional practice, and virtual learning communities. Practical training in research design, advanced data analytic techniques, and professional development through coursework and dissertation supervision.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
EDPE 684	Applied Multivariate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3
EDPE 704	Professional Development Seminar 1.	3
EDPE 705	Professional Development Seminar 2.	3
EDPE 706	Professional Development Seminar 3.	3
EDPE 707	Professional Development Seminar 4.	3
EDPE 708	Comprehensive Examination.	0

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 636	Motivation and Instruction.	3
EDPE 663	Learning Environments.	3
EDPE 664	Critical Thinking	3
EDPE 668	Advanced Seminar in Learning Sciences.	3
EDPH 689	Teaching and Learning in Higher Education.	3

or other 600-, 700-level courses offered by the Department and with the approval of the supervisor and the Program Director.

Counselling Applied to Teaching (Gr. Cert.) (15 credits)

Offered by: Educational & Counselling Psych (Faculty of Education)

Program credit weight: 15

Program Description

The goal of this program is to enhance teachers' knowledge and skills in interpersonal relations, communication, interviewing, group organization and leadership, crisis intervention, and career thinking and planning. Each of these knowledge areas addresses the recognition of situations when it is appropriate to make a referral to a personal or career counsellor, psychologist, or other professional. The program addresses both elementary and secondary education.

This graduate certificate does not qualify graduates to practise professional counselling or psychology (e.g., conducting psychological assessments or psychotherapy), or to refer to themselves by the term Counsellor or Psychologist: these are legally reserved titles. Programs leading to licensing as Counsellor or Psychologist are presented under Educational and Counselling Psychology (Counselling Psychology and School/Applied Child Psychology) or Psychology (Clinical Psychology) in Graduate and Postdoctoral Studies.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDPC 542	Leadership and Support Roles of the Teacher.	3
EDPC 562	Career as a Lifelong Process.	3

Complementary Courses (9 credits)

Choose from the following:

Note: these or other courses may be offered in alternate years.

Course	Title	Credits
EDPC 501	Facilitating Relationships .	3
EDPC 502	Group Processes and Diversity.	3
EDPC 504	Communication and Critical Conflict Resolution .	3
EDPC 505	Crisis Intervention Processes.	3
EDPC 507	Advocacy, Outreach and Leadership.	3
EDPI 543	Family, School and Community.	3

Education and Society (Thesis) (M.A.) (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Course	Title	Credits
EDEM 621	Thesis 1.	6
EDEM 623	Thesis 2.	6
EDEM 699	Thesis 3.	12

Required Courses (6 credits)

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 690	Research Methods: Theory and Practice.	3

Elective Courses (15 credits)

15 credits at the 500, 600, or 700 level, chosen in consultation with the Thesis Supervisor or Graduate Program Director. The student may take a maximum of 6 credits from outside the Department.

Education and Society (Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDEM 621	Thesis 1.	6
EDEM 623	Thesis 2.	6
EDEM 699	Thesis 3.	12

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 690	Research Methods: Theory and Practice.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (3 credits)

3 credits chosen from the following, must be either:

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or one 3-credit course, at the 500, 600, or 700 level on gender/women's issues, chosen in consultation with the Thesis Supervisor or Graduate Program Director.

Elective Courses (9 credits)

9 credits at the 500- level or higher, chosen in consultation with the Thesis Supervisor or Graduate Program Director. Maximum 3 credits from outside the Department.

Education and Society (Thesis) (M.A.): Mathematics and Science Education (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDEM 621	Thesis 1.	6
EDEM 623	Thesis 2.	6
EDEM 699	Thesis 3.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits	
EDEC 624	Researching, Teaching, Learning and Teacher Education.	3	interested in professional development with a research and theoretical orientation. The project creates an opportunity for students to investigate a particular interest.
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3	Expand allContract all
EDEC 626	MA Seminar in Math and Science Education 2.	3	Course
EDEM 690	Research Methods: Theory and Practice.	3	Title

Complementary Courses (6 credits)

3 credits of graduate-level courses from the following:

Expand allContract all

Course	Title	Credits
EDEC 646	Sociocultural and Epistemic Understandings of Science.	3
EDEC 647	Sociocultural and Epistemic Understandings of Mathematics.	3

3 credits of courses, from the following:

Expand allContract all

Course	Title	Credits
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 630	Ethnographic Approaches to Research .	3
EDEC 635	Research Writing.	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 692	Qualitative Research Methods.	3
EDER 608	Educational Implications of Social Theory.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 676	Intermediate Statistics.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3
EDTL 500	Applications of Educational Psychology Across Classrooms.	3
EDTL 508	Critical Educational Praxis.	3

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Thesis Supervisor or Graduate Program Director.

Education and Society (Non-Thesis) (M.A.) (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. non-thesis option consists mostly of coursework, and includes two 6 credit projects. This option is suitable for practitioners

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
EDER 633	Project 1.	6
EDER 634	Project 2.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 690	Research Methods: Theory and Practice.	3

Complementary Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDEA 555	Applied Theatre.	3
EDEA 655	Arts-Based Educational Research.	3
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 617	Special Topics in Educational Studies.	3
EDEC 620	Meanings of Literacy.	3
EDEC 627	Critical Discourse Studies in Education.	3
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3
EDEC 635	Research Writing.	3
EDEC 650	Critical Race Studies and Education .	3
EDEM 655	Indigenous Research Methodologies.	3
EDEM 501	Global Higher Education	3
EDEM 679	Special Topics 3 in Educational Leadership.	3
EDEM 688	Critical and Participatory Research Methods .	3
EDER 600	Globalization, Education and Change.	3
EDER 606	Philosophy of Moral Education.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3

EDER 643	Women, Education and Development.	3	EDEM 676	Organizing Non-Formal Learning.	3
EDER 649	Education: Multicultural Societies.	3	EDEM 690	Research Methods: Theory and Practice.	3

Elective Courses (12 credits)

12 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits outside DISE is permitted.

Education and Society (Non-Thesis) (M.A.): Course Work (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Education and Society; Non-Thesis-Course Work program consists exclusively of course work. This option is less research-oriented than the thesis and non-thesis project options and is suitable for practitioners interested in professional development with a theoretical orientation.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDER 600	Globalization, Education and Change.	3
EDER 609	Education and Philosophical Thought.	3

Complementary Courses (21 credits)

21 credits from the following:

Expand allContract all

Course	Title	Credits
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 617	Special Topics in Educational Studies.	3
EDEC 620	Meanings of Literacy.	3
EDEC 627	Critical Discourse Studies in Education.	3
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3
EDEC 635	Research Writing.	3
EDEC 650	Critical Race Studies and Education .	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 655	Indigenous Research Methodologies.	3
EDEM 660	Community Relations in Education.	3

EDER 606	Philosophy of Moral Education.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3

Elective Courses (15 credits)

15 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 6 credits, at the 500 level or higher, may be taken outside of the Department, selected in consultation with the approval of Program Coordinator or Director, and Department Chair.

Education and Society (Non-Thesis) (M.A.): Course Work Math & Science Education (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Education and Society; Non-Thesis-Course Work

- Mathematics and Science Education program emphasizes a pedagogical understanding of mathematics and science education, including a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will produce graduates who view improving mathematics and science education from a teaching and learning perspective, have developed understanding of research in mathematics and science education, and sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

Required Courses (12 credits)

Course	Title	Credits
EDEC 624	Researching, Teaching, Learning and Teacher Education.	3

EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3
EDEC 626	MA Seminar in Math and Science Education 2.	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all		
Course	Title	Credits
EDEC 646	Sociocultural and Epistemic Understandings of Science.	3
EDEC 647	Sociocultural and Epistemic Understandings of Mathematics.	3

15 credits from the following:

Expand allContract all		
Course	Title	Credits
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 627	Critical Discourse Studies in Education.	3
EDEC 635	Research Writing.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 660	Community Relations in Education.	3
EDEM 676	Organizing Non-Formal Learning.	3
EDEM 690	Research Methods: Theory and Practice.	3
EDER 600	Globalization, Education and Change.	3
EDER 606	Philosophy of Moral Education.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 676	Intermediate Statistics.	3
EDTL 500	Applications of Educational Psychology Across Classrooms.	3
EDTL 508	Critical Educational Praxis.	3

Elective Courses (15 credits)

15 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

Education and Society (Non-Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. non-thesis project option - Gender and Women's Studies is an interdisciplinary program for students who meet the degree requirements in a participating unit and wish to earn 6 credits of approved coursework focusing on gender and women's studies, and issues in feminist research and methods. The non-thesis project option consists mainly of coursework, and includes two 6 credit projects. This option is suitable for practitioners interested in professional development with a research and theoretical orientation. The project must be on a topic centrally relating to issues of gender and/or women's studies.

Research Project (12 credits)

Expand allContract all		
Course	Title	Credits
EDER 633	Project 1.	6
EDER 634	Project 2.	6

Required Courses (9 credits)

Expand allContract all		
Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 690	Research Methods: Theory and Practice.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (15 credits)

12 credits from the following:

Expand allContract all		
Course	Title	Credits
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 617	Special Topics in Educational Studies.	3
EDEC 620	Meanings of Literacy.	3

			Course	Title	Credits
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3	EDER 610D1	Internship.	7.5
EDEC 635	Research Writing.	3	EDER 610D2	Internship.	7.5
EDER 606	Philosophy of Moral Education.	3			
EDER 607	Ethics and Values in Education.	3			
EDER 608	Educational Implications of Social Theory.	3			
EDER 609	Education and Philosophical Thought.	3			
EDER 614	Sociology of Education.	3			
EDER 615	Introduction to Philosophy of Education.	3			
EDER 617	Aesthetics and Education.	3			
EDER 622	Studies in Comparative Education.	3			
EDER 625	Special Topics in Educational Studies.	3			
EDER 626	Theory and Praxis of Culture and Citizenship.	3			
EDER 643	Women, Education and Development.	3			
EDER 649	Education: Multicultural Societies.	3			

3 credits chosen from the following, must be either:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or one 3-credit course, at the 500 level or higher, on gender/women's issues.

Elective Courses (9 credits)

9 credits at the 500 level or higher. An elective course can be any course in DISE. If the course is outside the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits outside of DISE is permitted.

Education and Society (Non-Thesis) (M.A.): Jewish Education (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is designed to offer a graduate-level point of entry into the teaching profession for students who typically will have completed a B.A. with minor or major in Jewish Studies. The M.A. will not provide Quebec Government teacher certification (in Quebec, certification is at the B.Ed. level), but at the present time, Jewish schools may hire non-certified teachers of Jewish Studies at their discretion.

Students interested in doing a research-focused M.A. in the area of Jewish Education should follow one of the other graduate degree offerings within the area of Education and Society.

Required Internship (15 credits)

Expand allContract all

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDER 520	Issues in Jewish Education.	3

Complementary Courses (24 credits)

24 credits at the 500, 600, or 700 level, selected in consultation with the program adviser. Students will normally follow this profile:

9 credits from the course offerings of the Department of Jewish Studies, Faculty of Arts.

9 credits chosen from the following courses:

Expand allContract all

Course	Title	Credits
EDER 525	Teaching Judaism: Holidays.	3
EDER 527	Teaching Judaism: Special Topics.	3
EDER 528	Teaching Judaism: The Holocaust.	3

6 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDPE 535	Instructional Design.	3
EDPE 616	Cognitive Development.	3
EDPI 526	Supporting Students' Strengths and Talents.	3
EDPI 642	Inclusion: Past, Present and Future.	3
EDPI 654	Instruction/Curriculum Adaptation.	3

Education and Society (Non-Thesis) (M.A.): Project Math & Science Education (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Education and Society (Non-Thesis): Project Mathematics and Science Education program emphasizes action-oriented research in mathematics and science education, with a specific focus on teacher education in the areas of mathematics and science. The program will include targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. It will

produce graduates who view improving mathematics and science education from a teaching and learning perspective; have developed an understanding of research in mathematics and science education; and have sufficient teacher education experience to assume roles as educational leaders in informal and formal settings.

Project Courses (12 credits)

Expand all Contract all

Course	Title	Credits
EDER 633	Project 1.	6
EDER 634	Project 2.	6

Required Courses (15 credits)

Expand all Contract all

Course	Title	Credits
EDEC 624	Researching, Teaching, Learning and Teacher Education.	3
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3
EDEC 626	MA Seminar in Math and Science Education 2.	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 690	Research Methods: Theory and Practice.	3

Complementary Courses (12 credits)

3 credits from the following:

Expand all Contract all

Course	Title	Credits
EDEC 646	Sociocultural and Epistemic Understandings of Science.	3
EDEC 647	Sociocultural and Epistemic Understandings of Mathematics.	3

9 credits from the following:

Expand all Contract all

Course	Title	Credits
EDEC 602	Foundations in Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 627	Critical Discourse Studies in Education.	3
EDEC 635	Research Writing.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 660	Community Relations in Education.	3
EDEM 676	Organizing Non-Formal Learning.	3
EDEM 690	Research Methods: Theory and Practice.	3
EDER 600	Globalization, Education and Change.	3
EDER 606	Philosophy of Moral Education.	3
EDER 607	Ethics and Values in Education.	3

EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 676	Intermediate Statistics.	3
EDTL 500	Applications of Educational Psychology Across Classrooms.	3
EDTL 508	Critical Educational Praxis.	3

Elective Courses

6 credits at the 500 level or higher. An elective course can be any course in the Department. If the course is outside of the department, the student should consult with the Program Director or Coordinator prior to registering for the course. A maximum of 9 credits, at the 500 level or higher, may be taken outside of the Department.

Educational Leadership (Thesis) (M.A.) (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Expand all Contract all

Course	Title	Credits
EDEM 621	Thesis 1.	6
EDEM 623	Thesis 2.	6
EDEM 699	Thesis 3.	12

Required Courses (9 credits)

Expand all Contract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 610	Leadership in Action.	3
EDEM 673	Leadership Theory in Education.	3

Complementary Courses (6 credits)

6 credits selected from the following courses:

Expand all Contract all

Course	Title	Credits	Course	Title	Credits
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3	WMST 602	Feminist Research Symposium.	3
EDEC 630	Ethnographic Approaches to Research .	3		or one 3 credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).	
EDEM 690	Research Methods: Theory and Practice.	3			
EDEM 692	Qualitative Research Methods.	3			

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

Educational Leadership (Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDEM 621	Thesis 1.	6
EDEM 623	Thesis 2.	6
EDEM 699	Thesis 3.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 610	Leadership in Action.	3
EDEM 673	Leadership Theory in Education.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (6 credits)

3 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 630	Ethnographic Approaches to Research .	3
EDEM 690	Research Methods: Theory and Practice.	3
EDEM 692	Qualitative Research Methods.	3

3 credits selected from the following, must be either:

Expand allContract all

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

Educational Leadership (Non-Thesis) (M.A.): Course Work (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

This M.A. program focuses on Educational Leadership, with an emphasis on the evidence-based skills, capacities, and dispositions needed for effective, collaborative, and quality leadership.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 610	Leadership in Action.	3
EDEM 673	Leadership Theory in Education.	3

Complementary Courses (27 credits)

18-21 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEM 606	Educational Leadership Issues.	3
EDEM 628	Education Resource Management.	3
EDEM 630	Workplace Learning.	3
EDEM 635	Fiscal Accountability in Education.	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3
EDEM 660	Community Relations in Education.	3
EDEM 664	Education and the Law.	3
EDEM 671	Role of the Leader.	3
EDEM 674	Organizational Theory and Education.	3
EDEM 675	Special Topics 1 in Educational Leadership.	3
EDEM 677	Special Topics 2 in Educational Leadership.	3
EDEM 681	Practicum - Administrative Studies.	3

EDEM 690	Research Methods: Theory and Practice.	3
EDEM 693	School Improvement Approaches.	3
EDEM 695	Policy Studies in Education.	3

6-9 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEA 555	Applied Theatre.	3
EDEA 655	Arts-Based Educational Research.	3
EDEC 575	Special Topics in Education.	3
EDEC 602	Foundations in Curriculum.	3
EDEC 604	Literacy and Learning Across Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 620	Meanings of Literacy.	3
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3
EDEC 635	Research Writing.	3
EDEC 648	Historical Knowledge and Social Change.	3
EDEC 650	Critical Race Studies and Education .	3
EDEM 679	Special Topics 3 in Educational Leadership.	3
EDEM 688	Critical and Participatory Research Methods .	3
EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3
EDER 600	Globalization, Education and Change.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 617	Aesthetics and Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 625	Special Topics in Educational Studies.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3
EDER 639	Education and Development.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3

Elective Courses (9 credits)

9 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Coordinator or the Graduate Program Director.

Educational Leadership (Non-Thesis) (M.A.): Project (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts
Program credit weight: 45

Program Description

This M.A. program focuses on Educational Leadership, with an emphasis on the evidence-based skills, capacities, and dispositions needed for effective, collaborative, and quality leadership. The program includes two 6-credit action-oriented projects focused on leadership.

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 625	Project 1.	6
EDEM 627	Project 2.	6

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 610	Leadership in Action.	3
EDEM 673	Leadership Theory in Education.	3
EDEM 690	Research Methods: Theory and Practice.	3

Complementary Courses (15 credits)

9 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEM 606	Educational Leadership Issues.	3
EDEM 628	Education Resource Management.	3
EDEM 630	Workplace Learning.	3
EDEM 635	Fiscal Accountability in Education.	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3
EDEM 660	Community Relations in Education.	3
EDEM 664	Education and the Law.	3
EDEM 671	Role of the Leader.	3
EDEM 674	Organizational Theory and Education.	3
EDEM 675	Special Topics 1 in Educational Leadership.	3
EDEM 677	Special Topics 2 in Educational Leadership.	3
EDEM 681	Practicum - Administrative Studies.	3
EDEM 693	School Improvement Approaches.	3
EDEM 695	Policy Studies in Education.	3

6 credits selected from the following courses:

Expand allContract all

Course	Title	Credits	credits of approved course work focusing on gender and women's studies, and issues in feminist research and methods.
EDEC 575	Special Topics in Education.	3	
EDEC 602	Foundations in Curriculum.	3	
EDEC 604	Literacy and Learning Across Curriculum.	3	
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3	
EDEC 612	Digital Media and Learning.	3	
EDEC 620	Meanings of Literacy.	3	
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3	
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3	
EDEC 635	Research Writing.	3	
EDEC 648	Historical Knowledge and Social Change.	3	
EDEC 650	Critical Race Studies and Education .	3	
EDEM 655	Indigenous Research Methodologies.	3	
EDER 536	Critical and Ethical Dimensions of Sexualities Education.	3	
EDER 600	Globalization, Education and Change.	3	
EDER 607	Ethics and Values in Education.	3	
EDER 608	Educational Implications of Social Theory.	3	
EDER 614	Sociology of Education.	3	
EDER 615	Introduction to Philosophy of Education.	3	
EDER 617	Aesthetics and Education.	3	
EDER 622	Studies in Comparative Education.	3	
EDER 625	Special Topics in Educational Studies.	3	
EDER 626	Theory and Praxis of Culture and Citizenship.	3	
EDER 639	Education and Development.	3	
EDER 643	Women, Education and Development.	3	
EDER 649	Education: Multicultural Societies.	3	

Elective Courses (6 credits)

6 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Coordinator or the Graduate Program Director.

Educational Leadership (Non-Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

This M.A. program focuses on Educational Leadership with an emphasis on the evidence-based skills, capacities and dispositions needed for effective, collaborative, and quality leadership. The program includes two 6-credit action-oriented projects focused on leadership relating to issues of gender and/or women's studies. The Gender and Women's Studies option provides students with an opportunity to earn

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 625	Project 1.	6
EDEM 627	Project 2.	6

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 610	Leadership in Action.	3
EDEM 673	Leadership Theory in Education.	3
EDEM 690	Research Methods: Theory and Practice.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (15 credits)

9 credits selected from the following:

Expand allContract all

Course	Title	Credits
EDEM 606	Educational Leadership Issues.	3
EDEM 628	Education Resource Management.	3
EDEM 630	Workplace Learning.	3
EDEM 635	Fiscal Accountability in Education.	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3
EDEM 660	Community Relations in Education.	3
EDEM 664	Education and the Law.	3
EDEM 671	Role of the Leader.	3
EDEM 674	Organizational Theory and Education.	3
EDEM 675	Special Topics 1 in Educational Leadership.	3
EDEM 677	Special Topics 2 in Educational Leadership.	3
EDEM 681	Practicum - Administrative Studies.	3
EDEM 693	School Improvement Approaches.	3
EDEM 695	Policy Studies in Education.	3

3 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEC 575	Special Topics in Education.	3
EDEC 602	Foundations in Curriculum.	3
EDEC 604	Literacy and Learning Across Curriculum.	3

EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3	based second language teaching or “immersion”), language testing, language policy and planning, and critical applied linguistics. Graduates may go on to doctoral work in applied linguistics. They may also seek employment at ministry, school board, or other sites of active research on second languages. Many graduates also continue active careers in school contexts as second language teaching practitioners, program administrators or evaluators.
EDEC 612	Digital Media and Learning.	3	
EDEC 620	Meanings of Literacy.	3	
EDEC 625	MA Seminar in Practice-Based Teacher Education 1.	3	
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3	
EDEC 635	Research Writing.	3	
EDEC 648	Historical Knowledge and Social Change.	3	
EDER 600	Globalization, Education and Change.	3	
EDER 607	Ethics and Values in Education.	3	
EDER 608	Educational Implications of Social Theory.	3	
EDER 614	Sociology of Education.	3	
EDER 615	Introduction to Philosophy of Education.	3	
EDER 617	Aesthetics and Education.	3	
EDER 622	Studies in Comparative Education.	3	
EDER 625	Special Topics in Educational Studies.	3	
EDER 626	Theory and Praxis of Culture and Citizenship.	3	
EDER 639	Education and Development.	3	
EDER 643	Women, Education and Development.	3	
EDER 649	Education: Multicultural Societies.	3	

3 credits selected from the following, must be either:

Expand all	Contract all
Course	Title
EDER 536	Critical and Ethical Dimensions of Sexualities Education.
EDER 643	Women, Education and Development.
WMST 602	Feminist Research Symposium.

or 3 credits, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Coordinator or the Graduate Program Director.

Second Language Education (Thesis) (M.A.) (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Second Language Education consists of a 45-credit thesis or non-thesis program. It provides an overview of the state of the art in second language acquisition, assessment and evaluation, and research methods, including quantitative and qualitative approaches. The program covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning areas (for example, content-

Thesis Courses (24 credits)

Expand all	Contract all
Course	Title
EDSL 666	Thesis Research 1.
EDSL 667	Thesis Research 2.
EDSL 668	Thesis Research 3.
EDSL 669	Thesis Research 4.

Required Courses (12 credits)

Expand all	Contract all
Course	Title
EDEM 690	Research Methods: Theory and Practice.
EDPE 575	Statistics for Practitioners.
EDSL 623	Second Language Learning.
EDSL 627	Instructed Second Language Acquisition Research.

Complementary Courses (6 credits)

6 credits selected from the following courses:

Expand all	Contract all
Course	Title
EDEC 630	Ethnographic Approaches to Research .
EDEM 609	Critical Perspectives in Educational Theory and Research.
EDSL 617	Special Topics in Second Language Education.
EDSL 620	Social Justice Issues in Second Language Education.
EDSL 624	Educational Sociolinguistics.
EDSL 631	Second Language Curriculum.
EDSL 632	Second Language Literacy Development.
EDSL 640	Language Awareness: Theory and Practice.
EDSL 651	Content-Based L2 Learning.

Elective Course (3 credits)

3 credits at the 500, 600, or 700 level chosen in consultation with the Graduate Program Director.

Second Language Education (Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDSL 666	Thesis Research 1.	6
EDSL 667	Thesis Research 2.	6
EDSL 668	Thesis Research 3.	6
EDSL 669	Thesis Research 4.	6

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDPE 575	Statistics for Practitioners.	3
EDSL 623	Second Language Learning.	3
EDSL 627	Instructed Second Language Acquisition Research.	3
WMST 601	Feminist Theories and Methods.	3

Complementary Courses (6 credits)

3 credits selected from the following courses:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research .	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDSL 617	Special Topics in Second Language Education.	3
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 624	Educational Sociolinguistics.	3
EDSL 631	Second Language Curriculum.	3
EDSL 632	Second Language Literacy Development.	3
EDSL 640	Language Awareness: Theory and Practice.	3
EDSL 651	Content-Based L2 Learning.	3

3 credits chosen from the following, must be either:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

or one 3 credit course, at the 500, 600, or 700 level, on gender/women's issues (may be in the Department or outside).

Second Language Education (M.A.): Coursework (Non-Thesis) (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Second Language Education; Non-Thesis - Course Work consists of 45 credits of coursework. The program provides an overview of second language acquisition theory, research and research methods, including quantitative and qualitative approaches. It covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/methods and program planning (e.g., content-based language teaching, immersion), language policy and planning, and critical applied linguistics.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDPE 575	Statistics for Practitioners.	3
EDSL 623	Second Language Learning.	3
EDSL 627	Instructed Second Language Acquisition Research.	3

Complementary Courses (24 credits)

12-18 credits chosen from the following courses:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research .	3
EDEM 690	Research Methods: Theory and Practice.	3
EDSL 601	Methods and Curriculum in Second Language Teaching 1.	3
EDSL 602	Methods and Curriculum in Second Language Teaching 2.	3
EDSL 617	Special Topics in Second Language Education.	3
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 624	Educational Sociolinguistics.	3
EDSL 628	Plurilingualism&Translanguaging in Education and Research .	3
EDSL 631	Second Language Curriculum.	3
EDSL 632	Second Language Literacy Development.	3

EDSL 640	Language Awareness: Theory and Practice.	
EDSL 651	Content-Based L2 Learning.	

3 Exceptionally, one 3-credit undergraduate language course, at any level, in a language not formally studied previously may be taken as an elective.

Complementary Courses

6-12 credits from the following:

Expand allContract all

Course	Title	Credits
EDEA 555	Applied Theatre.	3
EDEA 655	Arts-Based Educational Research.	3
EDEC 604	Literacy and Learning Across Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 620	Meanings of Literacy.	3
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3
EDEC 635	Research Writing.	3
EDEC 648	Historical Knowledge and Social Change.	3
EDEC 650	Critical Race Studies and Education .	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3
EDEM 655	Indigenous Research Methodologies.	3
EDEM 660	Community Relations in Education.	3
EDEM 679	Special Topics 3 in Educational Leadership.	3
EDEM 688	Critical and Participatory Research Methods .	3
EDER 600	Globalization, Education and Change.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 639	Education and Development.	3
EDER 649	Education: Multicultural Societies.	3

Elective Courses (9 credits)

9 credits of courses at the 500, 600, or 700 level are selected in consultation with the Graduate Program Director or Coordinator and may include complementary courses listed above. Up to 6 of the elective credits may include the following courses:

Expand allContract all

Course	Title	Credits
WCOM 642	Cornerstones of Academic Writing.	1
WCOM 645	ESL: Fundamentals of Academic Writing .	1
WCOM 661	Literature Review 1: Summary and Critique.	1
WCOM 662	Literature Review 2: Establishing Scholarly Niches.	1

Second Language Education (Non-Thesis) (M.A.): Project (45 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Second Language Education; Non-Thesis - Project consists of coursework and individualized projects. The program provides an overview of second language acquisition theory, research and research methods, including quantitative and qualitative approaches. It covers a wide range of current topics in applied linguistics and offers opportunities to specialize in educational sociolinguistics, curricular/ methods and program planning (e.g., content based language teaching, immersion), language policy and planning, and critical applied linguistics.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDPE 575	Statistics for Practitioners.	3
EDSL 623	Second Language Learning.	3
EDSL 627	Instructed Second Language Acquisition Research.	3

Research Project (12 credits)

Expand allContract all

Course	Title	Credits
EDSL 695	Project 1.	6
EDSL 696	Project 2.	6

Complementary Courses (15 credits)

9-12 credits chosen from the following courses:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research .	3
EDSL 601	Methods and Curriculum in Second Language Teaching 1.	3
EDSL 602	Methods and Curriculum in Second Language Teaching 2.	3
EDSL 617	Special Topics in Second Language Education.	3
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 624	Educational Sociolinguistics.	3

EDSL 628	Plurilingualism&Translanguaging in Education and Research .	3
EDSL 631	Second Language Curriculum.	3
EDSL 632	Second Language Literacy Development.	3
EDSL 640	Language Awareness: Theory and Practice.	3
EDSL 651	Content-Based L2 Learning.	3

3-6 credits selected from the following:

Expand allContract all

Course	Title	Credits
EDEC 604	Literacy and Learning Across Curriculum.	3
EDEC 606	Self-Study, Autoethnography, and Autobiographical Research .	3
EDEC 612	Digital Media and Learning.	3
EDEC 620	Meanings of Literacy.	3
EDEC 628	Literacy - Multilingual/Multicultural Settings.	3
EDEC 635	Research Writing.	3
EDEC 648	Historical Knowledge and Social Change.	3
EDEM 609	Critical Perspectives in Educational Theory and Research.	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3
EDEM 660	Community Relations in Education.	3
EDER 600	Globalization, Education and Change.	3
EDER 607	Ethics and Values in Education.	3
EDER 608	Educational Implications of Social Theory.	3
EDER 609	Education and Philosophical Thought.	3
EDER 614	Sociology of Education.	3
EDER 615	Introduction to Philosophy of Education.	3
EDER 622	Studies in Comparative Education.	3
EDER 639	Education and Development.	3
EDER 643	Women, Education and Development.	3
EDER 649	Education: Multicultural Societies.	3

Elective Courses (6 credits)

6 credits of courses at the 500, 600, or 700 level are chosen in consultation with the Graduate Program Director or Coordinator, may include complementary courses listed above, and may include some of the following courses:

Expand allContract all

Course	Title	Credits
WCOM 642	Cornerstones of Academic Writing.	1
WCOM 645	ESL: Fundamentals of Academic Writing .	1
WCOM 661	Literature Review 1: Summary and Critique.	1
WCOM 662	Literature Review 2: Establishing Scholarly Niches.	1

Exceptionally, one 3-credit undergraduate language course, at any level, in a language not formally studied previously may be taken as an elective.

Teaching and Learning (Non-Thesis) (M.A.): English or French Second Language (60 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

The Master of Arts in Teaching and Learning; Non-Thesis - English or French Second Language Option is a graduate-level teacher education program. The program includes a minimum of 700 hours of school-based internships at the elementary and secondary levels, and offers two streams: an Independent Research Stream and a Course-Based Stream. The program's core academic components emphasize a comprehensive understanding of educational foundations, principles, theories, and practices and include a specific emphasis on English or French second language education. Upon successful completion of the program, graduates are recommended to the Québec Ministry of Education for teacher certification at the elementary and secondary school levels.

Required Courses (51 credits)

Expand allContract all

Course	Title	Credits
EDEC 550	Indigenizing Pedagogy and Curriculum.	3
EDEC 612	Digital Media and Learning.	3
EDIN 610	Internship 1.	7
EDIN 620	Internship 2.	8
EDPS 600	Introductory Professional Seminar.	3
EDPS 610	Professional Seminar 1.	2
EDPS 620	Professional Seminar 2.	1
EDSL 500	Foundations and Issues in Second Language Education.	3
EDSL 505	Second Language Acquisition Applied to Classroom Contexts.	3
EDSL 512	Grammar in Teaching English as a Second Language.	3
EDTL 515	English Exam for Teacher Certification.	0
EDTL 601	Student Engagement and Learning Environments.	3
EDTL 604	Techniques for Planning and Assessment.	3
EDTL 609	Neurodiversity and Learning.	3
EDTL 635	Applied Methods in Second Language Education.	3
EDTL 636	Adv. Applied Methods in Second Language Education.	3

Complementary Courses (9 credits)

9 credits selected from one of the following streams:

Independent Research Stream

Expand allContract all

Course	Title	Credits
EDSL 695	Project 1.	6

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Course-Based Stream

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDER 615	Introduction to Philosophy of Education.	3
EDTL 506	Philosophy of Education.	3

6 credits to be chosen from among 500-level or 600-level department course offerings to be determined by the student's area of study. Courses in other departments may be taken upon approval by the department graduate coordinator or director.

Teaching and Learning (Non-Thesis) (M.A.): English Language Arts Option (60 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

The Master of Arts in Teaching and Learning; Non-Thesis - English Language Arts is a graduate-level teacher education program. The program includes a minimum of 700 hours of school-based internships at the secondary level and offers two streams: an Independent Research Stream and a Course-Based Stream. The program's core academic components emphasize a comprehensive understanding of educational foundations, principles, theories, and practices and include a specific emphasis on English literature, literacies, language content and pedagogies. Upon successful completion of the program, graduates are recommended to the Québec Ministry of Education for teacher certification at the secondary school level.

Required Courses (51 credits)

Expand allContract all

Course	Title	Credits
EDEC 550	Indigenizing Pedagogy and Curriculum.	3
EDEC 612	Digital Media and Learning.	3
EDEC 620	Meanings of Literacy.	3
EDIN 610	Internship 1.	7
EDIN 620	Internship 2.	8
EDPS 600	Introductory Professional Seminar.	3
EDPS 610	Professional Seminar 1.	2
EDPS 620	Professional Seminar 2.	1
EDTL 508	Critical Educational Praxis.	3
EDTL 515	English Exam for Teacher Certification.	0
EDTL 601	Student Engagement and Learning Environments.	3
EDTL 604	Techniques for Planning and Assessment.	3
EDTL 607	Language and Policy in Quebec Education.	3
EDTL 609	Neurodiversity and Learning.	3
EDTL 629	Applied Methods in Teaching Secondary Eng. Language Arts.	3
EDTL 630	Advanced Applied Methods in Teaching Sec English Lang Arts.	3

Complementary Courses (9 credits)

9 credits selected from one of the following two streams:

Independent Research Stream

Expand allContract all

Course	Title	Credits
EDER 633	Project 1.	6

3 credits selected from:

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Course-Based Stream

Expand allContract all

Course	Title	Credits
EDER 615	Introduction to Philosophy of Education.	3
EDTL 506	Philosophy of Education.	3

6 credits to be chosen from among 500-level or 600-level department course offerings to be determined by the student's area of study. Courses in other departments may be taken upon approval by the department graduate coordinator or director.

Teaching and Learning (Non-Thesis) (M.A.): Mathematics Option (60 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

The Master of Arts in Teaching and Learning; Non-Thesis - Mathematics is a graduate- level teacher education program. The program includes a minimum of 700 hours of school-based internships at the secondary level and offers two streams: an Independent Research Stream, and a Course-Based Stream. The program's core academic components emphasize a comprehensive understanding of educational foundations, principles, theories, and practices and include a specific emphasis on mathematics content and pedagogies. Upon successful completion of the program, graduates are recommended to the Québec Ministry of Education for teacher certification at the secondary school level.

Required Courses (51 credits)

Expand allContract all

Course	Title	Credits
EDEC 550	Indigenizing Pedagogy and Curriculum.	3
EDEC 612	Digital Media and Learning.	3
EDIN 610	Internship 1.	7
EDIN 620	Internship 2.	8
EDPS 600	Introductory Professional Seminar.	3
EDPS 610	Professional Seminar 1.	2
EDPS 620	Professional Seminar 2.	1
EDTL 508	Critical Educational Praxis.	3
EDTL 515	English Exam for Teacher Certification.	0
EDTL 520	Perspectives on Knowledge in Mathematics and Science.	3
EDTL 601	Student Engagement and Learning Environments.	3
EDTL 604	Techniques for Planning and Assessment.	3
EDTL 607	Language and Policy in Quebec Education.	3
EDTL 609	Neurodiversity and Learning.	3
EDTL 627	Applied Methods in Teaching Mathematics in Secondary School.	3
EDTL 628	Advanced Methods in Teaching Mathematics in Sec. School.	3

Complementary Courses (9 credits)

9 credits selected from one of the following two streams:

Independent Research Stream

Expand allContract all

Course	Title	Credits
EDER 633	Project 1.	6

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Course-Based Stream

Expand allContract all

Course	Title	Credits
EDER 615	Introduction to Philosophy of Education.	3
EDTL 506	Philosophy of Education.	3

6 credits to be chosen from among 500-level or 600-level department course offerings to be determined by the student's area of study. Courses in other departments may be taken upon approval by the department graduate coordinator or director.

Teaching and Learning (Non-Thesis) (M.A.): Social Sciences Option (60 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Program Description

The Master of Arts in Teaching and Learning; Non-Thesis - Social Science is a graduate- level teacher education program. The program includes a minimum of 700 hours of school-based internships at the secondary level and offers two streams: an Independent Research Stream and a Course-Based Stream. The program's core academic components emphasize a comprehensive understanding of educational foundations, principles, theories, and practices and include a specific emphasis on history content and pedagogies with a specialization in geography or culture and citizenship in Quebec. Upon successful completion of the program, graduates are recommended to the Québec Ministry of Education for teacher certification at the secondary school level.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
EDEC 550	Indigenizing Pedagogy and Curriculum.	3
EDEC 612	Digital Media and Learning.	3
EDIN 610	Internship 1.	7
EDIN 620	Internship 2.	8
EDPS 600	Introductory Professional Seminar.	3
EDPS 610	Professional Seminar 1.	2
EDPS 620	Professional Seminar 2.	1
EDTL 508	Critical Educational Praxis.	3

EDTL 515	English Exam for Teacher Certification.	0
EDTL 601	Student Engagement and Learning Environments.	3
EDTL 604	Techniques for Planning and Assessment.	3
EDTL 607	Language and Policy in Quebec Education.	3
EDTL 609	Neurodiversity and Learning.	3
EDTL 633	Applied Methods in Teaching Social Science in Sec. School.	3

Teaching and Learning (Non-Thesis) (M.A.): Science and Technology Option (60 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 60

Complementary Courses (15 credits)

3 credits selected from (in accordance with second specialization in Geography or Culture and Citizenship in Quebec)

Expand allContract all

Course	Title	Credits
EDTL 612	Adv Applied Methods in Teaching Quebec Culture & Citizenship.	3
EDTL 634	Adv Applied Meth in Teaching Social Sciences in Sec. School.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDEC 648	Historical Knowledge and Social Change.	3
EDER 626	Theory and Praxis of Culture and Citizenship.	3

9 credits selected from one of the following two streams:

Independent Research Stream

Expand allContract all

Course	Title	Credits
EDER 633	Project 1.	6

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Course-Based Stream

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDER 615	Introduction to Philosophy of Education.	3
EDTL 506	Philosophy of Education.	3

6 credits to be chosen from among 500-level or 600-level department course offerings to be determined by the student's area of study. Courses in other departments may be taken upon approval by the department graduate coordinator or director.

Program Description

The Master of Arts in Teaching and Learning; Non-Thesis - Science and Technology is a graduate- level teacher education program. The program includes a minimum of 700 hours of school-based internships at the secondary level and offers two streams: an Independent Research Stream and a Course-Based Stream. The program's core academic components emphasize a comprehensive understanding of educational foundations, principles, theories, and practices and include a specific emphasis on science and technology content and pedagogies. Upon successful completion of the program, graduates are recommended to the Québec Ministry of Education for teacher certification at the secondary school level.

Required Courses (51 credits)

Expand allContract all

Course	Title	Credits
EDEC 550	Indigenizing Pedagogy and Curriculum.	3
EDEC 612	Digital Media and Learning.	3
EDIN 610	Internship 1.	7
EDIN 620	Internship 2.	8
EDPS 600	Introductory Professional Seminar.	3
EDPS 610	Professional Seminar 1.	2
EDPS 620	Professional Seminar 2.	1
EDTL 515	English Exam for Teacher Certification.	0
EDTL 520	Perspectives on Knowledge in Mathematics and Science.	3
EDTL 525	Teaching Science and Technology.	3
EDTL 601	Student Engagement and Learning Environments.	3
EDTL 604	Techniques for Planning and Assessment.	3
EDTL 607	Language and Policy in Quebec Education.	3
EDTL 609	Neurodiversity and Learning.	3
EDTL 625	Applied Methods in Teaching Science in Secondary School.	3
EDTL 626	Advanced Applied Methods in Teaching Science in Sec. School.	3

Complementary Courses (9 credits)

9 credits selected from one of the following two streams:

Independent Research Stream

Expand allContract all

Course	Title	Credits
EDER 633	Project 1.	6

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Course-Based Stream

Expand allContract all

Course	Title	Credits
EDER 615	Introduction to Philosophy of Education.	3
EDTL 506	Philosophy of Education.	3

6 credits to be chosen from among 500-level or 600-level department course offerings to be determined by the student's area of study. Courses in other departments may be taken upon approval by the department graduate coordinator or director.

Educational Studies (Ph.D.)

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

Students must satisfy all program requirements of the Ph.D.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (8 credits)

Expand allContract all

Course	Title	Credits
EDEC 700	Proseminar in Education 1.	2
EDEC 701	Ph.D. Comprehensive Examination.	0
EDEC 702	Proseminar in Education 2.	2
EDEC 703	Ph.D. Colloquium.	4

Note: EDEC 701 Ph.D. Comprehensive Examination. is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (3 credits)

One of the following courses:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research.	3
EDEC 706	Textual Approaches to Research.	3
EDEC 707	Interpretive Inquiry.	3
EDEM 692	Qualitative Research Methods.	3

Elective Courses (3-12 credits)

Elective courses required in the student's Ph.D. plan of study will be determined in consultation with the Doctoral Advisory Committee depending on the student's background and research interests.

Students must take a minimum of 3 credits of elective courses.

Students admitted to Ph.D. 2 will normally take up to 12 credits of elective courses under the advice of their Doctoral Advisory Committee.

Students admitted to Ph.D. 1 without an M.A. may be advised by their Doctoral Advisory Committee to take more than 12 credits of elective courses depending on their background. If admitted to the program without at least 6 credits of M.A.-level research methods and/or Statistics courses, candidates may be expected to take such courses during their first year of study as advised.

These may be selected from current offerings of research methods courses either within or outside the Department, such as:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research.	3
EDEM 690	Research Methods: Theory and Practice.	3
EDEM 692	Qualitative Research Methods.	3

Students required by their Doctoral Advisory Committee to take graduate courses in statistics will select from a range of courses, such as the following:

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3

Educational Studies (Ph.D.): Gender and Women's Studies

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate

ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (14 credits)

Expand allContract all

Course	Title	Credits
EDEC 700	Proseminar in Education 1.	2
EDEC 701	Ph.D. Comprehensive Examination.	0
EDEC 702	Proseminar in Education 2.	2
EDEC 703	Ph.D. Colloquium.	4
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Note: EDEC 701 Ph.D. Comprehensive Examination. is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (3 credits)

One of the following courses:

Expand allContract all

Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research .	3
EDEC 706	Textual Approaches to Research.	3
EDEC 707	Interpretive Inquiry.	3
EDEM 692	Qualitative Research Methods.	3

One course, at the 500 level or higher on gender/women's issues, to be chosen from the approved list (available from the McGill Institute for Gender, Sexuality, and Feminist Studies) in consultation with the Doctoral Advisory Committee depending on the student's background and research interests. In some cases, additional courses may be required or recommended by the Doctoral Advisory Committee.

Educational Studies (Ph.D.): Language Acquisition

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

Students must satisfy all program requirements for the Ph.D. in Educational Studies. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate

ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (14 credits)

Expand allContract all

Course	Title	Credits
EDEC 700	Proseminar in Education 1.	2
EDEC 701	Ph.D. Comprehensive Examination.	0
EDEC 702	Proseminar in Education 2.	2
EDEC 703	Ph.D. Colloquium.	4
LING 710	Language Acquisition Issues 2.	2
PSYC 709	Language Acquisition Issues 1.	2
SCSD 712	Language Acquisition Issues 4.	2

Complementary Courses (9 credits)

3 credits of graduate-level statistics from the courses below:

Students who have taken an equivalent course in statistics, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied this requirement for the Language Acquisition Option.

Expand allContract all

Course	Title	Credits
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3
LING 620	Experimental Linguistics: Methods.	3
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3

3 credits selected from the following list:

Expand allContract all

Course	Title	Credits
EDEC 706	Textual Approaches to Research.	3
EDEC 707	Interpretive Inquiry.	3

At least 3 credits selected from the following list:

Expand allContract all

Course	Title	Credits
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 623	Second Language Learning.	3
EDSL 624	Educational Sociolinguistics.	3
EDSL 627	Instructed Second Language Acquisition Research.	3
EDSL 632	Second Language Literacy Development.	3

LING 651	Topics in Acquisition of Phonology.	3
PSYC 545	Topics in Language Acquisition.	3
PSYC 735	Developmental Psychology and Language.	3
SCSD 619	Phonological Development.	3
SCSD 632	Phonological Disorders: Children.	3
SCSD 637	Developmental Language Disorders 1.	3
SCSD 643	Developmental Language Disorders 2.	3
SCSD 652	Advanced Research Seminar 1.	3
SCSD 653	Advanced Research Seminar 2.	3
SCSD 654	Advanced Research Seminar 3.	3

Elective Course (0-2 credits)

0-2 credits from the following:

Expand allContract all		
Course	Title	Credits
EDPE 713	Language Acquisition Issues 5.	2
EDSL 711	Language Acquisition Issues 3.	2

Educational Studies (Ph.D.): Mathematics and Science Education

Offered by: Integrated Studies in Ed (Faculty of Education)

Degree: Doctor of Philosophy

Program Description

This Ph.D. concentration emphasizes research in mathematics and science education, including a specific focus on teacher education in the area of math and science. Graduates will gain sufficient research experience to conduct empirical research in math and science education and sufficient teacher education experience to assume roles as teacher educators in university or other settings. The program includes targeted opportunities for candidates to develop skills, knowledge, and practices specific to teaching and learning mathematics and science, mathematics and science teacher preparation, and research in both of these areas. Applicants for the Ph.D. concentration in mathematics and science education would be expected to already have a Master's degree that included educational research.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (17 credits)

Expand allContract all		
Course	Title	Credits
EDEC 624	Researching, Teaching, Learning and Teacher Education.	3
EDEC 700	Proseminar in Education 1.	2
EDEC 701	Ph.D. Comprehensive Examination.	0
EDEC 702	Proseminar in Education 2.	2
EDEC 703	Ph.D. Colloquium.	4
EDEC 708	PhD Seminar in Practice-Based Teacher Education 1.	3
EDEC 709	PhD Seminar in Math and Science Education 2.	3

Note: EDEC 701 Ph.D. Comprehensive Examination, is normally taken at the end of the second year for Ph.D. 2 program entrants and at the end of the third year for Ph.D. 1 entrants.

Complementary Courses (3-9 credits)

3 credits of graduate-level courses in curriculum, from the following:

Expand allContract all		
Course	Title	Credits
EDEC 646	Sociocultural and Epistemic Understandings of Science.	3
EDEC 647	Sociocultural and Epistemic Understandings of Mathematics.	3

0-3 credits of advanced quantitative methods, as listed below. Students who have taken an equivalent course in quantitative methods, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

Expand allContract all		
Course	Title	Credits
EDPE 682	Univariate/Multivariate Analysis.	3

0-3 credits of qualitative methods or advanced research design from the following: Students who have taken an equivalent course in qualitative methods or advanced research design, or are currently taking an equivalent course as part of their Ph.D. program requirements, will be deemed to have satisfied these credits.

Expand allContract all		
Course	Title	Credits
EDEC 630	Ethnographic Approaches to Research .	3
EDEC 706	Textual Approaches to Research.	3
EDEC 707	Interpretive Inquiry.	3
EDEM 692	Qualitative Research Methods.	3

Elective Courses (0-9 credits)

Depending on the student's prior coursework and in consultation with the Supervisor and/or Doctoral Advisory Committee, an additional 0-9 credits of elective courses at the 500 level or higher may be required.

Educational Leadership 1 (Gr. Cert.) (15 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Program credit weight: 15

Program Description

This 15-credit program addresses the needs of experienced and aspiring school leaders who are taking increased responsibility for the students and communities they serve. The management of schools is increasingly seen as making a major contribution to the learning and personal development of students. The professional development of school leaders, educational reform, and school partnership form the basis for the program.

Please click here for information on additional requirements for students pursuing this online program:
https://www.mcgill.ca/study/university_regulations_and_resources/graduat...

Course selection to be approved by Graduate Certificate Program Director.

Complementary Courses

15 credits from:

Expand allContract all

Course	Title	Credits
EDEC 635	Research Writing.	3
EDEM 610	Leadership in Action.	3
EDEM 628	Education Resource Management.	3
EDEM 635	Fiscal Accountability in Education.	3
EDEM 637	Managing Educational Change.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 646	Planning and Evaluation.	3

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

Educational Leadership 2 (Gr. Cert.) (15 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Program credit weight: 15

Program Description

This 15-credit program explores more deeply leadership theory and educational issues and applications in a practicum. Candidates for the Graduate Certificate in Educational Leadership 2 should normally have completed the first certificate. In combination, the two certificates allow school administrators to acquire the 30 graduate credits in the field of educational leadership required by the Quebec Ministry of Education.

Students in the online version of this program, please click here for information on additional requirements.
https://www.mcgill.ca/study/university_regulations_and_resources/graduat...

https://www.mcgill.ca/study/university_regulations_and_resources/graduat...

Course selection to be approved by Graduate Certificate Program Director.

No course taken in Certificate 1 can be repeated in Certificate 2.

Complementary Courses (15 credits)

15 credits from:

Expand allContract all

Course	Title	Credits
EDEM 606	Educational Leadership Issues.	3
EDEM 660	Community Relations in Education.	3
EDEM 664	Education and the Law.	3
EDEM 671	Role of the Leader.	3
EDEM 673	Leadership Theory in Education.	3
EDEM 675	Special Topics 1 in Educational Leadership.	3
EDEM 681	Practicum - Administrative Studies.	3
EDEM 693	School Improvement Approaches.	3
EDEM 695	Policy Studies in Education.	3

Or other 500-level or higher courses approved by the Graduate Certificate Program Director.

Educational Leadership 3 (Gr. Cert.) (15 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Program credit weight: 15

Program Description

The Graduate Certificate in Educational Leadership 3 emphasizes applied research in educational leadership and ways in which educational leadership and associated theories can inform the design, implementation, and assessment of educational programs in schools. The program highlights applied research in the context of teaching and learning in Quebec elementary and secondary schools. No course taken in the Graduate Certificate in Educational Leadership 1 may be repeated in Graduate Certificate in Educational Leadership 2 or Graduate Certificate in Educational Leadership 3. The Graduate Certificate in Educational Leadership 3 may be offered on campus or online.

Students in the online version of this program, please click here for information on additional requirements.

https://www.mcgill.ca/study/university_regulations_and_resources/graduat...

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDEM 625	Project 1.	6
EDEM 625N1	Project 1.	3

EDEM 625N2	Project 1.	1
EDEM 627	Project 2.	6

¹ Students take either EDEM 625 Project 1. or EDEM 625N1 Project 1. and EDEM 625N2 Project 1.

Complementary Courses (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
EDEM 690	Research Methods: Theory and Practice.	3
EDEM 692	Qualitative Research Methods.	3
EDTL 640	Teacher Inquiry and Action Research.	3

Or other 500-level or higher research method courses approved by the Graduate Certificate Program Director.

International Leadership in Educational and Administrative Development (Gr. Cert.) (15 credits)

Offered by: Dean's Office (Faculty of Education)

Program credit weight: 15

Program Description

** This program is currently not offered. **

The Graduate Certificate in International Leadership in Educational and Administrative Development (I-LEAD) targets leaders, consultants, senior management, administrators, and policy makers from a range of educational institutions (universities, colleges, private schools), organizations (hospitals, community, governmental), and the corporate sector. The varied curriculum provide a world-class global training experience in educational leadership. The majority of courses are delivered online asynchronously, with students accessing learning material and engaging in online discussions. Courses are offered online during the fall, winter, and spring semesters, and also include an intensive summer component on the McGill campus.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDLE 601	Resource Administration and Fiscal Accountability.	3
EDLE 602	Marketing & Strategy in International Education Leadership.	3
EDLE 603	Educational Planning and Evaluation.	3
EDLE 604	Education and Internationalization.	3
EDLE 605	Leading for Success in Educational Institutions.	3

Teaching English as a Second Language (Gr. Cert.) (15 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)

Program credit weight: 15

Program Description

This 15-credit certificate is designed as professional development for in-service teachers and candidates with a background in education, language studies, linguistics, or a related field, or as preparation for application to our M.A. in Second Language Education. The five courses that comprise the certificate provide a solid background and offer in-depth study in the field of second-language education from a range of perspectives and with a focus on research and applications to teaching. Please note that this certificate does not lead to teacher certification.

The Graduate Certificate in TESL is designed to be available to students worldwide. Courses are offered in a combination of online and face-to-face formats, and sequenced in such a way that students can complete the certificate in one year. The maximum time for completion is five years. The first three courses are offered online, and can be undertaken anywhere an Internet connection is available. The final two courses are offered face-to-face either on-site at McGill or at off-site locations with collaborative partners, if numbers warrant.

Please click here for information on additional requirements for students pursuing this online program:

https://www.mcgill.ca/study/university_regulations_and_resources/graduat...

Required Courses (15 credits)

Online Courses

Expand allContract all

Course	Title	Credits
EDSL 500	Foundations and Issues in Second Language Education.	3
EDSL 505	Second Language Acquisition Applied to Classroom Contexts.	3
EDSL 512	Grammar in Teaching English as a Second Language.	3

On-site at McGill in Intensive (1 month) Institute

Note: Off-site delivery can be considered for a specified minimum number of students. Certain limitations and additional costs would apply.

Expand allContract all

Course	Title	Credits
EDSL 601	Methods and Curriculum in Second Language Teaching 1.	3
EDSL 602	Methods and Curriculum in Second Language Teaching 2.	3

Pédagogie de l'immersion française (Cert.ed.sup.) (15 credits)

Offered by: Integrated Studies in Ed
Program credit weight: 15

Program Description

This program is currently not offered.

Le Certificat d'études supérieures en pédagogie de l'immersion française (PIF) outille les enseignant.e.s du primaire et du secondaire afin de répondre aux défis pédagogiques liés à l'enseignement dans la classe d'immersion française en contexte canadien. Ce certificat d'études supérieures de 15 crédits offerts en ligne s'adresse aux enseignant.e.s détenant au préalable un brevet d'enseignement émis par une université reconnue. La réussite d'un test de français est obligatoire lors de la demande d'admission.

¹ Veuillez prendre note que deux cours complémentaires sont proposés sous forme d'atelier d'été en présentiel. Toutefois, ces cours ne sont pas requis pour satisfaire aux exigences du certificat d'études supérieures.

Cours obligatoires (12 crédits)

Expand allContract all

Course	Title	Credits
EDSL 501	Attestation de maîtrise langue française.	0
EDSL 570	L'acquisition des langues secondes en contexte immersif.	2
EDSL 572	Planifier l'intégration de la langue et du contenu.	2
EDSL 574	Didactique de la langue française.	2
EDSL 576	Soutenir la production et la compréhension en immersion.	2
EDSL 582	L'évaluation en immersion française.	2
EDSL 584	L'inclusion en classe d'immersion française.	2

Cours complémentaires (3 crédits)

2 crédits parmi les suivants:

Expand allContract all

Course	Title	Credits
EDSL 578	Les débuts de la littératie au primaire.	2
EDSL 580	La littératie chez les plus grands.	2

1 crédit parmi les suivants:

Expand allContract all

Course	Title	Credits
EDSL 585	Enseigner la culture francophone.	1
EDSL 586	L'identité professionnelle en immersion française .	1

EDSL 590	Atelier en didactique de l'immersion française 1.	1
EDSL 591	Atelier en didactique de l'immersion française 2.	1

Teaching Indigenous Education for Non Indigenous Educators (Gr. Cert.) (15 credits)

Offered by: Integrated Studies in Ed (Faculty of Education)
Program credit weight: 15

Program Description

This 15-credit Graduate Certificate Program offers professional development for in-service non-Indigenous teachers supporting their growth as more effective teachers in First Nations and Inuit communities. The program addresses subjects of particular interest and need in Indigenous schools, such as cultural socialization, culturally appropriate teaching strategies, second-language teaching, and the history of Indigenous cultures and peoples.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDEC 590	Culturally Appropriate Teaching.	3
EDEC 591	Cultural Values and Socialization.	3
EDEM 502	Indigenous Family Dynamics and Supporting Institutions.	3
EDEM 503	Research Seminar In Indigenous Studies.	3
EDSL 505	Second Language Acquisition Applied to Classroom Contexts.	3

Kinesiology and Physical Education (Thesis) (M.A.) (45 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Kinesiology and Physical Education (Thesis) focuses on research in the social and pedagogical sciences related to kinesiology, physical activity, and physical education. Related areas of research include, but not limited to, physical and health education, sport sociology and cultural studies; adapted physical activity; and sport and exercise psychology.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDKP 691	Thesis Research 1.	6
EDKP 692	Thesis Research 2.	6

EDKP 693	Thesis Research 3.	6	Degree: Master of Science
EDKP 694	Thesis Research 4.	6	Program credit weight: 45

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EDKP 605	Research Methods 1.	3
EDKP 621	Seminar in Kinesiology and Physical Education 1A.	1.5
EDKP 622	Seminar in Kinesiology and Physical Education 2A.	1.5
EDKP 623	Seminar in Kinesiology and Physical Education 3A.	1.5
EDKP 624	Seminar in Kinesiology and Physical Education 4A.	1.5

Complementary Courses (12 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
EDKP 631	Qualitative Methods.	3
EDPE 676	Intermediate Statistics.	3

9 credits from:

Students must take a minimum of 9 credits of coursework in a classroom setting that is relevant to their area of research selected in consultation with the Graduate Student Advisor.

Expand allContract all

Course	Title	Credits
EDKP 548	Applied Exercise Psychology.	3
EDKP 603	Individual Reading Course 1.	6
EDKP 616	Individual Reading Course 2.	3
EDKP 625	Sport, Physical Activity and Social Theory .	3
EDKP 631	Qualitative Methods.	3
EDKP 654	Sport Psychology.	3
EDKP 664	Motor Learning and Behaviour.	3
EDKP 671	Experimental Problems.	3
EDKP 672	Advanced Experimental Problems.	6
EDPE 676	Intermediate Statistics.	3

Students may also take courses (500, 600, or 700 level) outside of the department chosen in consultation with the supervisor or student advisor, up to a maximum of 6 credits.

Kinesiology and Physical Education (Thesis) (M.Sc.) (45 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Program Description

The M.Sc. in Kinesiology and Physical Education (Thesis) focusses on research in the social and pedagogical sciences related to kinesiology, physical activity, and physical education. Related areas of research include, but not limited to, biomechanics, exercise physiology and motor control and learning.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EDKP 691	Thesis Research 1.	6
EDKP 692	Thesis Research 2.	6
EDKP 693	Thesis Research 3.	6
EDKP 694	Thesis Research 4.	6

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDKP 605	Research Methods 1.	3
EDKP 621	Seminar in Kinesiology and Physical Education 1A .	1.5
EDKP 622	Seminar in Kinesiology and Physical Education 2A.	1.5
EDKP 623	Seminar in Kinesiology and Physical Education 3A .	1.5
EDKP 624	Seminar in Kinesiology and Physical Education 4A.	1.5
EDPE 676	Intermediate Statistics.	3

Complementary Courses (9 credits)

Students must take a minimum of 3 credits of coursework in a classroom setting in the area of concentration selected in consultation with the Graduate Student Advisor.

Expand allContract all

Course	Title	Credits
EDKP 548	Applied Exercise Psychology.	3
EDKP 566	Advanced Biomechanics	3
EDKP 603	Individual Reading Course 1.	6
EDKP 616	Individual Reading Course 2.	3
EDKP 631	Qualitative Methods.	3
EDKP 652	Advanced Cardiopulmonary Exercise Physiology.	3
EDKP 662	Musculoskeletal Responses to Exercise.	3
EDKP 664	Motor Learning and Behaviour.	3
EDKP 671	Experimental Problems.	3
EDKP 672	Advanced Experimental Problems.	6

Students may also take courses (500, 600, or 700 level) from outside of the department chosen in consultation with the supervisor or student advisor, up to a maximum of 6 credits.

Kinesiology Sciences (Ph.D.) (18 credits)

Offered by: Kinesiology and Physical Ed (Faculty of Education)

Degree: Doctor of Philosophy

Program credit weight: 18

Program Description

The Ph.D. in Kinesiology Sciences focuses on in-depth research experience in (an) area(s) of kinesiology research. The program includes graduate research training in kinesiology-related areas such as exercise physiology, biomechanics, motor control, physical and health education pedagogy, and sport, exercise and health psychology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDKP 621	Seminar in Kinesiology and Physical Education 1A.	1.5
EDKP 622	Seminar in Kinesiology and Physical Education 2A.	1.5
EDKP 623	Seminar in Kinesiology and Physical Education 3A.	1.5
EDKP 624	Seminar in Kinesiology and Physical Education 4A.	1.5
EDKP 661D1	Current Topics in Kinesiology Research.	1.5
EDKP 661D2	Current Topics in Kinesiology Research.	1.5
EDKP 701	Ph.D. Comprehensive Examination.	0

Complementary Courses (6 credits)

A minimum of 6 credits from the following; other courses, at the 500-level or higher, on these topics from the Faculty of Education or other Faculties may be selected subject to approval of the program adviser.

Expand allContract all

Course	Title	Credits
EDKP 603D1	Individual Reading Course 1.	3
EDKP 603D2	Individual Reading Course 1.	3

EDKP 605	Research Methods 1.	3
EDKP 616	Individual Reading Course 2.	3
EDKP 652	Advanced Cardiopulmonary Exercise Physiology.	3
EDKP 654	Sport Psychology.	3
EDKP 662	Musculoskeletal Responses to Exercise.	3
EDKP 664	Motor Learning and Behaviour.	3
EDKP 671	Experimental Problems.	3
EDKP 672	Advanced Experimental Problems.	6
EDPE 676	Intermediate Statistics.	3

Architecture (Thesis) (M.Sc.) (45 credits)

Offered by: Architecture (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Architecture (Thesis) is a research-intensive program of study, focusing on critical skills in research, analysis, experimentation, design research, and interpretation that are applicable in the profession, allied disciplines, and society. The program accommodates several areas of study, capitalizing on faculty expertise. It offers flexibility between a written or design-oriented thesis, and promotes close interaction between students and faculty in sponsored and unsponsored research. Original research on architectural, engineering, landscape, and urban issues of interest with implications for the built environment are conducted to develop the student's research skills and competencies for doctoral studies or a leadership role in professional practice.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
ARCH 627	Research Methods.	3
ARCH 630J1	Research Symposium.	1
ARCH 630J2	Research Symposium.	1
ARCH 630J3	Research Symposium.	1
ARCH 694	Thesis Preparation.	3
ARCH 695	Detailed Research Proposal.	6
ARCH 696	Thesis Submission.	18

Complementary Courses (12 credits)

12 credits selected from the following:

Expand allContract all

Course	Title	Credits
ARCH 515	Sustainable Design.	3
ARCH 517	Sustainable Residential Development.	3
ARCH 602	Advanced Studies in Housing	3
ARCH 604	Urban Design Seminar.	3

			Course	Title	Credits
ARCH 626	Critical Design Strategies.	3	ARCH 514	Community Design Workshop.	3
ARCH 635	Selected Topics in Housing 1.	3	ARCH 515	Sustainable Design.	3
ARCH 641	Energy and Environments 1.	3	ARCH 517	Sustainable Residential Development.	3
ARCH 642	Energy and Environments 2.	3	ARCH 525	Seminar on Analysis and Theory.	3
ARCH 651	Architectural History and Theory Seminar 1.	3	ARCH 528	History of Housing.	3
ARCH 652	Architectural History and Theory Seminar 2.	3	ARCH 531	Architectural Intentions Vitruvius - Renaissance.	3
ARCH 653	Architectural History and Theory Seminar 3.	3	ARCH 532	Origins of Modern Architecture.	3
ARCH 654	Architectural History and Theory Seminar 4.	3	ARCH 535	History of Architecture in Canada.	3
ARCH 670	Advanced Landscape Theory.	3	ARCH 536	Heritage Conservation.	3
ARCH 675	Architecture in Global Perspective.	3	ARCH 540	Selected Topics in Architecture 1.	3
ARCH 684	Contemporary Theory 1.	3	ARCH 541	Selected Topics in Architecture 2.	3
ARCH 685	Contemporary Theory 2.	3	ARCH 542	Selected Topics in Architecture 3.	3
	Other courses at the 500-level or higher, inside or outside the School, if relevant to the program of study, can be approved by the student's supervisor and Graduate Program Director.		ARCH 543	Selected Topics in Architecture 4.	3
			ARCH 562	Innovative Homes and Communities.	3
			ARCH 602	Advanced Studies in Housing	3
			ARCH 604	Urban Design Seminar.	3
			ARCH 627	Research Methods.	3
			ARCH 641	Energy and Environments 1.	3
			ARCH 642	Energy and Environments 2.	3
			ARCH 670	Advanced Landscape Theory.	3
			ARCH 675	Architecture in Global Perspective.	3
			ARCH 680	Field Sketching.	2
			ARCH 684	Contemporary Theory 1.	3
			ARCH 685	Contemporary Theory 2.	3
			ARCH 688	Directed Research 1.	3
			ARCH 689	Directed Research 2.	3
			OCC1 625	Functional Environments.	3
			URBP 555	Real Estate and Planning.	3
			URBP 651	Redesigning Suburban Space.	3

Professional Master of Architecture (Non-Thesis) (M.Arch.) (60 credits)

Offered by: Architecture (Faculty of Engineering)

Degree: Master of Architecture

Program credit weight: 60

Program Description

The M.Arch. (Professional); Non-Thesis degree program provides a structured opportunity to explore advanced architectural design, integrating building construction, landscape and urban design, professional practice, sustainable design, and the history and theory of architecture. A strategic focus on design methodology, innovative research, and self-directed inquiry, supported by the advanced media and modeling technologies and other resources required to carry out architectural research and creative practice.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
ARCH 628	Fundamentals of Building Regulations and Safety.	3
ARCH 672	Architectural Design Studio 1.	9
ARCH 673	Architectural Design Studio 2.	9
ARCH 674	Professional Practice 1.	3
ARCH 676	Advanced Architectural Design.	9
ARCH 678	Advanced Construction.	3
ARCH 683	Directed Research Project.	9

Complementary Courses (15 credits)

15 credits chosen from among the following:

Expand allContract all

Architecture (Ph.D.)

Offered by: Architecture (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Architecture is a research degree with a thesis, the foundations for which are developed through a series of courses taken in the first two years of study. Each student meets regularly with the supervisor in the first year to prepare the thesis proposal (ARCH 700 Thesis Proposal.). Three Literature Review preparatory courses (ARCH 721 Literature Review 1., ARCH 722 Literature Review 2., ARCH 723 Literature Review 3.) and three (or more) complementary courses are taken in the first two years of study. All students also participate in the two Research Seminars (ARCH 711 Doctoral Proseminar 1., ARCH 712 Doctoral Proseminar 2.) to present the research framework and objectives for peer critique. By the end of the second year of studies (Ph.D.-3), the student must complete the

Comprehensive Examination (ARCH 701 Comprehensive Examination.) with a formal presentation to an Advisory Committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ARCH 700	Thesis Proposal.	0
ARCH 701	Comprehensive Examination.	0
ARCH 711	Doctoral Proseminar 1.	3
ARCH 712	Doctoral Proseminar 2.	3
ARCH 721	Literature Review 1.	3
ARCH 722	Literature Review 2.	3
ARCH 723	Literature Review 3.	3

Complementary Courses (9 credits)

Students must take 9 credits of courses at the 600 or 700 level, selected with the approval of the School.

Chemical Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Chemical Engineering (Thesis) is a research-oriented program that focuses on advanced materials and polymers, biomedical engineering and biotechnology, environmental engineering, energy, plasma science and artificial intelligence-assisted design and optimization. This program offers advanced training in fundamentals as well as research methods, laboratory safety and research ethics and is, therefore, the more relevant program for those whose primary interest is research as well as a suitable preparation for a career in industry.

Thesis Courses (31 credits)

Expand allContract all

Course	Title	Credits
CHEE 697	Thesis Proposal.	6
CHEE 698	Thesis Research 1.	12
CHEE 699	Thesis Research 2.	13

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
CHEE 681	Laboratory Safety 1.	1
CHEE 682	Laboratory Safety 2.	1
CHEE 687	Research Skills and Ethics.	2

Complementary Courses (10 credits)

4 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 611	Heat and Mass Transfer.	4
CHEE 621	Thermodynamics.	4
CHEE 631	Foundations of Fluid Mechanics.	4
CHEE 641	Chemical Reaction Engineering.	4
CHEE 651	Advanced Biochemical Engineering.	4
CHEE 662	Computational Methods.	4
CHEE 672	Process Dynamics and Control.	4
CHEE 688	Advanced Materials in Chemical Engineering.	4

A minimum of 3 credits of Chemical Engineering courses at the 500, 600, or 700 level.

Any remaining complementary course credit requirements may be fulfilled by completing Chemical Engineering or other Engineering or Science courses at the 500, 600, or 700 level.

Chemical Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Research Project (6-12 credits)

Project (design or research): 6-12 credits.

6 credits must include the following course:

Expand allContract all

Course	Title	Credits
CHEE 695	Project in Chemical Engineering.	6

Complementary Courses (33-39 credits)

A minimum of 18 credits in Chemical Engineering at the 500, 600, or 700 level.

9 credits must be in an area of concentration.

12 additional courses at the 500, 600, or 700 level.

Chemical Engineering (Non-Thesis): Environmental Engineering (M.Eng.) (45 credits)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

This program is currently not accepting applicants.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 695	Project in Chemical Engineering.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 591	Environmental Bioremediation.	3
CIVE 615	Environmental Engineering Seminar.	3

Complementary Courses (22 credits)

Minimum of 22 credits

Data analysis course (3 credits)

Expand allContract all

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology (3 credits)

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3
OCCH 616	Occupational Hygiene.	3

Water pollution engineering (4 credits)

Expand allContract all

Course	Title	Credits
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4

Air pollution engineering (3 credits)

Expand allContract all

Course	Title	Credits
CHEE 592	Industrial Air Pollution Control.	3
MECH 534	Air Pollution Engineering.	3

Soil and water quality management (3 credits)

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CIVE 686	Site Remediation.	4

Environmental impact (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

or an approved 500-, 600-, or 700-level alternative.

Environmental policy (3 credits)

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

or an approved 500-, 600-, or 700-level alternative.

Elective Courses (11 credits)

Expand allContract all

Course	Title	Credits
CHEE 696	Extended Project.	6

or another Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval.

Chemical Engineering (Ph.D.)

Offered by: Chemical Engineering (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Chemical Engineering focuses on advanced materials and polymers, biomedical engineering and biotechnology, environmental engineering, energy, plasma science and artificial intelligence-assisted design and optimization. The program offers advanced training in fundamentals as well as research methods and techniques, laboratory safety and research ethics.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
CHEE 681	Laboratory Safety 1.	1
CHEE 682	Laboratory Safety 2.	1
CHEE 687	Research Skills and Ethics.	2
CHEE 795	Ph.D. Thesis Proposal.	0
CHEE 796	Ph.D. Proposal Defence.	0
CHEE 797	Ph.D. Seminar 1	0
CHEE 798	Ph.D. Seminar 2	0

Complementary Courses (6-12 credits)

6-12 credits at the 500 level or higher, in consultation with the supervisor and depending on student's background. May include the following:

Expand allContract all

Course	Title	Credits
CHEE 611	Heat and Mass Transfer.	4
CHEE 621	Thermodynamics.	4
CHEE 631	Foundations of Fluid Mechanics.	4
CHEE 641	Chemical Reaction Engineering.	4
CHEE 651	Advanced Biochemical Engineering.	4
CHEE 662	Computational Methods.	4
CHEE 672	Process Dynamics and Control.	4
CHEE 688	Advanced Materials in Chemical Engineering.	4

Civil Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Civil Engineering focuses on structures and structural materials; infrastructure rehabilitation; risk engineering; fluid mechanics and hydraulics; materials engineering; soil behaviour; soil mechanics and foundations; water resources engineering; environmental engineering; and transportation engineering. A two- to

three-semester independent research project is undertaken in one of these fields, leading to a thesis.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
CIVE 630	Thesis Research 1.	3
CIVE 631	Thesis Research 2.	3
CIVE 632	Thesis Research 3.	3
CIVE 633	Thesis Research 4.	6
CIVE 634	Thesis Research 5.	6
CIVE 635	Thesis Research 6.	6

Required Course (1 credit)

Expand allContract all

Course	Title	Credits
CIVE 662	Master's (Thesis) Research Seminar.	1

Complementary Courses (17 credits)

17 credits at the 500 or 600 level, with at least 8 credits at the 600 level.

Civil Engineering (Non-Thesis): Environmental Engineering (M.Eng.) (45 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The program consists of a minimum of 45 credits, of which, depending on the student's home department, a minimum of 5 and a maximum of 15 may be allotted to the research project. The balance of 30 to 40 credits is earned by coursework. The Department also allows students to complete the program using a minimum of 45 credits of coursework only.

The Environmental Engineering option is administered by the Faculty of Engineering. Further information may be obtained from the Program Coordinator, Department of Civil Engineering.

Research Project (0 or 5-15 credits)

The program may include a project or, with Departmental approval, may be completed with courses only.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits	
CHEE 591	Environmental Bioremediation.	3	Oceanic Sciences, Biology, Chemistry, Earth and Planetary Sciences, Economics, Epidemiology and Biostatistics, Geography, Occupational Health, Political Science, School of Religious Studies, Sociology, and Bieler School of Environment.
CIVE 615	Environmental Engineering Seminar.	3	

Complementary Courses (24-39 credits)

a minimum of 22 credits chosen from the following:

Data analysis

Expand allContract all

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3

Water pollution engineering

Expand allContract all

Course	Title	Credits
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4

Air pollution engineering

Expand allContract all

Course	Title	Credits
MECH 534	Air Pollution Engineering.	3

Soil and water quality management

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CIVE 686	Site Remediation.	4

Environmental impact

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

Environmental policy

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

Elective Courses

Also, 0-15 credits of graduate courses from an approved list of courses from the Faculties of Engineering, Agricultural and Environmental Sciences, Law, Management; Departments of Atmospheric and

Civil Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The MEng Non-Thesis program aims to provide a more professional orientation to graduate students. The main features of this degree program are:

- A minimum of 15 credits selected from a list of research oriented courses
- A maximum of 30 credits with emphasis on expertise (specialty area) for professional practice.

Research Seminar (3 credits)

Expand allContract all

Course	Title	Credits
CIVE 664	MEng (Non-thesis) Research Seminar.	3

List A: Research Courses (12-42 credits)

A minimum of 12 credits from research courses, from one of the research streams: 1) Infrastructure, 2) Environmental/Hydraulics-Water Resources, and 3) Transportation.

Infrastructure Stream

Expand allContract all

Course	Title	Credits
CIVE 512	Advanced Civil Engineering Materials.	3
CIVE 602	Finite Element Analysis.	4
CIVE 603	Structural Dynamics.	4
CIVE 609	Risk Engineering.	4
CIVE 623	Durability of Construction Materials .	4

Environmental/Hydraulics-Water Resources

Expand allContract all

Course	Title	Credits
CIVE 555	Environmental Data Analysis.	3
CIVE 572	Computational Hydraulics.	3
CIVE 584	Mechanics of Groundwater Flow.	3
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 677	Water-Energy Sustainability.	4

Transportation

Expand allContract all

Course	Title	Credits	CIVE 683	Advanced Foundation Design.	4
CIVE 540	Urban Transportation Planning.	3	CIVE 686	Site Remediation.	4
CIVE 542	Transportation Network Analysis.	3			
CIVE 560	Transportation Safety and Design.	3			
CIVE 609	Risk Engineering.	4			

List B: Other Complementary Courses from the Department (0-30 credits)

Courses from List A that are not used to fulfill the 15 credits requirement of Research Courses can be used also as complementary courses.

Expand allContract all

Course	Title	Credits
CIVE 507	Wind Engineering.	3
CIVE 520	Groundwater Hydrology.	3
CIVE 521	Nanomaterials and the Aquatic Environment.	3
CIVE 527	Renovation and Preservation: Infrastructure.	3
CIVE 528	Design of Wood Structures.	3
CIVE 543	System Dynamics for Civil and Environmental Engineering	3
CIVE 550	Water Resources Management.	3
CIVE 557	Microbiology for Environmental Engineering.	3
CIVE 561	Greenhouse Gas Emissions.	3
CIVE 570	Solar Driven Environmental Processes and Technologies	3
CIVE 573	Hydraulic Structures.	3
CIVE 574	Fluid Mechanics of Water Pollution.	3
CIVE 577	River Engineering.	3
CIVE 604	Theory of Plates and Shells.	4
CIVE 605	Stability of Structures.	4
CIVE 607	Advanced Design in Steel.	4
CIVE 612	Earthquake-Resistant Design.	4
CIVE 614	Composites for Construction.	4
CIVE 615	Environmental Engineering Seminar.	3
CIVE 616	Nonlinear Structural Analysis for Buildings.	4
CIVE 617	Bridge Engineering.	4
CIVE 622	Prestressed Concrete.	4
CIVE 625	Condition Assessment of Existing Structures.	4
CIVE 628	Advanced Design of Wood Buildings .	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4
CIVE 661	Modelling of Transportation Emissions.	4
CIVE 663	Environmental Fate of Organic Chemicals.	4

Project Courses (0 or 5-15 credits)

Credits for a program may vary, depending on the amount of work involved. Project courses are chosen from the following:

Expand allContract all

Course	Title	Credits
CIVE 691	Research Project 1.	1
CIVE 692	Research Project 2.	2
CIVE 693	Research Project 3.	3
CIVE 694	Research Project 4.	4
CIVE 695	Research Project 5.	5
CIVE 696	Research Project 6.	6
CIVE 697	Research Project 7.	7

Graduate courses from other McGill Engineering Departments are also allowed as complementary courses. A maximum of 1/3 of coursework credits can be taken outside McGill. Approval is required from the Department in both cases.

Civil Engineering (Ph.D.)

Offered by: Civil Engineering (Faculty of Engineering)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
CIVE 701	Ph.D. Comprehensive Examination.	0
CIVE 702	Ph.D. Research Proposal.	0

Complementary Courses

6-8 credits at the 500 or 600 level taken from the Department of Civil Engineering.

Electrical Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Electrical Engineering (Thesis) is research oriented and the thesis is expected to involve a thorough examination of a topic of current interest in the research area within the Department. Undertaking this program at McGill University provides students with an opportunity to conduct intensive research under the supervision of researchers who are leaders in their field. The program is an ideal preparation for a Ph.D. degree or an industrial research career.

The M.Sc. Thesis program must be completed on a full-time basis in no more than three years. The following requirements must be met.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
ECSE 691	Thesis Research 1.	3
ECSE 692	Thesis Research 2.	4
ECSE 693	Thesis Research 3.	4
ECSE 694	Thesis Research 4.	4
ECSE 695	Thesis Research 5.	4
ECSE 696	Thesis Research 6.	4
ECSE 697	Thesis Research 7.	4

Students who choose the thesis option must register for all 27 credits during the three terms of residency.

Complementary Courses (18 credits)

18 credits of 500-, 600-, or 700-level courses, of which no more than 6 credits may be outside the Department.

- 1 Non-departmental courses require Departmental approval. Students may be allowed to take more than 6 credits of non-Departmental courses; a letter of recommendation from their supervisor outlining the reason for such an action is required.

Electrical Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Electrical Engineering; Non-Thesis program is a professional course-based program of 45 credits. The program provides a solid background in electrical and computer engineering, both in terms of breadth across the entire field and depth in the area of specialty. The program structure allows students to complete the program in three semesters. A part-time program is possible.

Complementary Courses (45 credits)

Full-time students must complete the program in three years.

45 credits of 500- or 600- courses, of which no more than 16 credits may be outside the Department. Students may not take Thesis Research courses - ECSE 691 to ECSE 697.

* Non-departmental courses require Departmental Approval. In exceptional circumstances and with proper justification, students may be permitted to take more than 16 credits of non-Departmental courses; approval from the Graduate Program Director or delegate is required.

Electrical Engineering (Ph.D.)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
ECSE 701	Ph.D. Qualifying Examination.	0
ECSE 702	Ph.D. Research Plan Proposal.	0
ECSE 703	Doctoral Research Seminar.	0

In addition to the successful completion of the required courses above, students must complete the courses prescribed by the student's Supervisory Committee.

Electrical Engineering (Non-Thesis): Applied Artificial Intelligence (M.Eng.) (45 credits)

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Electrical Engineering; Non-Thesis-Applied Artificial Intelligence is a professional program of 45 credits.

The program provides the foundation for applications of Artificial Intelligence (AI) techniques and experience building an AI system in

various fields of interest. The program may be completed on a part-time basis.

Required Courses (14 credits)

Expand allContract all

Course	Title	Credits
ECSE 551	Machine Learning for Engineers.	4
ECSE 552	Deep Learning.	4
ECSE 679D1	Project in Applied Artificial Intelligence.	3
ECSE 679D2	Project in Applied Artificial Intelligence.	3

COMP 588	Probabilistic Graphical Models.	4
COMP 685	Machine Learning Applied to Climate Change.	4
ECSE 506	Stochastic Control and Decision Theory.	3
ECSE 508	Multi-Agent Systems.	3
ECSE 541	Design of Multiprocessor Systems-on-Chip.	3
ECSE 544	Computational Photography.	4
ECSE 546	Advanced Image Synthesis.	4
ECSE 554	Applied Robotics .	4
MECH 559	Engineering Systems Optimization.	3

Complementary Courses

(18-24 credits)

Group A: Artificial Intelligence Focused

6-8 credits from the following:

Expand allContract all

Course	Title	Credits
ECSE 526	Artificial Intelligence.	3
ECSE 555	Advanced Topics in Artificial Intelligence.	4
ECSE 556	Machine Learning in Network Biology.	4
ECSE 557	Introduction to Ethics of Intelligent Systems.	3
ECSE 626	Statistical Computer Vision.	4
ECSE 683	Topics in Vision and Robotics.	4

Group B: Mathematical Foundations of Artificial Intelligence

3-4 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 540	Matrix Computations.	4
ECSE 500	Mathematical Foundations of Systems.	3
ECSE 501	Linear Systems.	3
ECSE 507	Optimization and Optimal Control.	3
ECSE 509	Probability and Random Signals 2.	3
ECSE 543	Numerical Methods in Electrical Engineering.	3
ECSE 621	Statistic Detection and Estimation.	4

Group C: Applications of Artificial Intelligence

9-12 credits from the following:

Expand allContract all

Course	Title	Credits
COMP 545	Natural Language Understanding with Deep Learning .	4
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 558	Fundamentals of Computer Vision.	4
COMP 565	Machine Learning in Genomics and Healthcare.	4
COMP 579	Reinforcement Learning.	4
COMP 585	Intelligent Software Systems .	4

Elective Courses

(7-13 credits)

7-13 credits at the 500 or 600 level (excluding ECSE 691 to ECSE 697)

* No more than 16 credits in total may be outside the Department. With the exception of courses in the Complementary Courses list, non-departmental courses require Departmental Approval. In exceptional circumstances and with proper justification, students may be permitted to take more than 16 credits of non-Departmental courses; approval from the Graduate Program Director or delegate is required.

Mechanical Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Mechanical Engineering is a research-oriented program that focuses on planning and conducting research as well as organizing and presenting research results, supervised by one or more professors who are experts in the field.

Thesis Courses (28 credits)

Expand allContract all

Course	Title	Credits
MECH 691	M.Sc. Thesis Literature Review.	1
MECH 692	M.Sc.Thesis Research Proposal.	4
MECH 693	M.Sc.Thesis Progress Report 1.	3
MECH 694	M.Sc. Thesis Progress Report 2.	6
MECH 695	M.Sc. Thesis.	12

1 MECH 691 M.Sc. Thesis Literature Review. must be completed in the first term of the student's program.

Required Course (1 credit)

Expand allContract all

Course	Title	Credits
MECH 609	Seminar.	1

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering or Faculty of Science, at least 8 of which must be from within the Faculty of Engineering. FACC courses will not count toward the complementary course credits.

Mechanical Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Mechanical Engineering; Non-Thesis program is a course-based program of 45 credits. The program provides a solid background in mechanical engineering, both in terms of breadth across the entire field and depth in the area of specialty.

Research Project (13 credits)

Expand allContract all

Course	Title	Credits
MECH 603	M. Eng. Project 1.	9
MECH 604	M. Eng. Project 2.	3
MECH 609	Seminar.	1

Note: Industrial liaison is encouraged in these courses taken near the end of the program.

Required Courses (16 credits)

Expand allContract all

Course	Title	Credits
MECH 605	Applied Mathematics 1.	4
MECH 610	Fundamentals of Fluid Dynamics.	4
MECH 632	Advanced Mechanics of Materials.	4
MECH 642	Advanced Dynamics.	4

Complementary Courses (16 credits)

A minimum of 16 credits (500, 600, or 700 level) from the Faculty of Engineering may be selected by the student, based on interest and the choice of area of concentration. Courses at the graduate level from other faculties may also be taken, with prior approval from the student's project supervisor and the Graduate Program Director. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

Aerospace Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The M.Eng. Aerospace Degree is offered to the students who wish to specialize in the general area of aerospace engineering. This degree is given in conjunction with Concordia University, Polytechnique de Montréal, Université Laval, Université de Sherbrooke, and École de Technologie Supérieure. Students registered at McGill are required to take two courses from two other institutions.

Depending on their background, students would specialize in one of the three areas:

1. Aeronautics and Space Engineering
2. Avionics and Control
3. Aerospace Materials and Structures

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MECH 687	Aerospace Case Studies.	3
MECH 688	Industrial Stage.	6

Complementary Courses (36 credits)

The other courses, depending on the area of concentration, will be chosen in consultation with an Aerospace Engineering Adviser. A maximum of 3 credits of FACC courses at the 500, 600, or 700 level may be credited toward the degree.

Mechanical Engineering (Ph.D.)

Offered by: Mechanical Engineering (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

Candidates normally register for the M.Eng. degree in the first instance. However, in exceptional cases where the research work is proceeding very satisfactorily, or where the equivalent of the M.Eng. degree has been completed at another university, candidates may be permitted to proceed directly to the Ph.D. degree without submitting a master's thesis as long as they have satisfied the course requirements for the M.Eng. degree.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
MECH 700	Ph.D. Literature Review.	0
MECH 701	Ph.D. Thesis Proposal.	0
MECH 702	Ph.D. Comprehensive Preliminary Oral Examination.	0

Materials Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Materials Engineering (Thesis) is a research-oriented program that focuses on research skills and knowledge of materials engineering through coursework and a research thesis under the supervision of a Faculty member (professor). Emphasis is placed on research methods, as well as fundamentals. As such, the program is the more suitable option for those whose primary interest is research. The M.Sc. (Thesis) is for candidates with a Bachelor's degree in Engineering or from a discipline relevant to materials engineering.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
MIME 690	Thesis Research 1.	6
MIME 691	Thesis Research 2.	3
MIME 692	Thesis Research 3.	6
MIME 693	Thesis Research 4.	3
MIME 694	Thesis Research 5.	6
MIME 695	Thesis Research 6.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 610D1	Master's Foundation Course.	1.5
MIME 610D2	Master's Foundation Course.	1.5
MIME 670	Research Seminar 1.	6

Complementary Courses (9 credits)

9 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

Mining Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Mining Engineering focuses on both fundamental and applied research. A two- to three-semester independent research project, leading to a thesis, is undertaken in any research area of mining science, engineering or technology, as well as closely related fields.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
MIME 690	Thesis Research 1.	6
MIME 691	Thesis Research 2.	3
MIME 692	Thesis Research 3.	6
MIME 693	Thesis Research 4.	3
MIME 694	Thesis Research 5.	6
MIME 695	Thesis Research 6.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
6 credits from:		
Course	Title	Credits
MIME 673	Mining Engineering Seminar.	6

Complementary Courses (12 credits)

12 credits at the 500-level or higher selected from within and/or outside the Department in consultation with the student's supervisor and/or Advisory Committee.

Materials Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Materials Engineering: Non-Thesis program is primarily designed to train people with appropriate engineering or scientific background to allow them to work effectively in the materials industries.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
MIME 680	Materials Engineering Project 1.	6
MIME 681	Materials Engineering Project 2.	6
MIME 682	Materials Engineering Project 3.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 670	Research Seminar 1.	6

Complementary Courses (24 credits)

12 credits of MIME courses at the 500 level or higher.

12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Adviser.

Materials Engineering (Non-Thesis): Environmental Engineering (M.Eng.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

This interdepartmental graduate option leads to a Master of Engineering (M.Eng.) Materials Engineering: Non-Thesis-Environmental Engineering. The objective of the option is to train environmental professionals at an advanced level. The program is designed for individuals with an undergraduate degree in engineering. The Environmental Engineering option emphasizes interdisciplinary fundamental knowledge, practical perspectives, and awareness of environmental issues through a wide range of technical and non-technical courses offered by collaborating departments and faculties at the University. Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in the program.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
MIME 680	Materials Engineering Project 1.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 591	Environmental Bioremediation.	3
CIVE 615	Environmental Engineering Seminar.	3

Complementary Courses (22 credits)

(minimum 22 credits)

Data Analysis Course

One of the following courses:

Expand allContract all

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology Course

One of the following courses:

Expand allContract all

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3
OCCH 616	Occupational Hygiene.	3

Water Pollution Engineering Course

One of the following courses:

Expand allContract all

Course	Title	Credits
CIVE 651	Theory: Water / Wastewater Treatment.	4
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4
CIVE 660	Chemical and Physical Treatment of Waters.	4

Air Pollution Engineering Course

One of the following courses:

Expand allContract all

Course	Title	Credits
CHEE 592	Industrial Air Pollution Control.	3
MECH 534	Air Pollution Engineering.	3

Soil and Water Quality Management Course

One of the following courses:

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CIVE 686	Site Remediation.	4

Environmental Impact Course

One of the following courses:

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3
	or an approved 500-, 600-, or 700-level alternative.	

Environmental Policy Course

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

or an approved 500-, 600-, or 700-level alternative.

Elective Courses (11 credits)

(minimum 11 credits)

Another project course and/or Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval of the Department.

The relevant Project course in Materials Engineering is the following:

Expand allContract all

Course	Title	Credits
MIME 681	Materials Engineering Project 2.	6

Mining Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Mining: Non-Thesis program is primarily designed for graduates from mining engineering programs who have received adequate academic training in modern mining technology, mineral economics, computer programming, and probabilities and statistics.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
MIME 628	Mineral Engineering Project 1.	6
MIME 629	Mineral Engineering Project 2.	6
MIME 634	Mineral Engineering Project 3.	3

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 673	Mining Engineering Seminar.	6

Complementary (24 credits)

12 credits of MIME courses at the 500 level or higher.

12 credits of courses at the 500 level or higher from within and/or outside the Department in consultation with the Program Advisor.

Mining Engineering (Non-Thesis): Environmental Engineering (M.Eng.) (45 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

Students are strongly encouraged to consult with the Graduate Program Director prior to enrolling in the program.

The M.Eng. in Mining Engineering; Non#Thesis - Environmental Engineering program emphasizes interdisciplinary fundamental knowledge, practical perspectives, and awareness of environmental issues.

Research Project (6 credits)

Expand allContract all

Course	Title	Credits
MIME 628	Mineral Engineering Project 1.	6

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 591	Environmental Bioremediation.	3
CIVE 615	Environmental Engineering Seminar.	3

Complementary Courses (22 credits)

(minimum 22 credits)

Data Analysis Course

3 credits from the following:

Course	Title	Credits
AEMA 611	Experimental Designs 1.	3
CIVE 555	Environmental Data Analysis.	3
PSYC 650	Advanced Statistics 1.	3

Toxicology Course

3 credits from the following:

Course	Title	Credits
OCCH 612	Principles of Toxicology.	3
OCCH 616	Occupational Hygiene.	3

Water Pollution Engineering Course

4 credits from the following:

Expand allContract all

Course	Title	Credits	
CIVE 651	Theory: Water / Wastewater Treatment.	4	academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course, and take a preliminary examination within their first year of Ph.D. study.
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4	
CIVE 660	Chemical and Physical Treatment of Waters.	4	The candidate must submit an acceptable thesis based upon successfully completed research and must satisfy the examiners in an oral examination of the thesis.

Air Pollution Engineering Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
CHEE 592	Industrial Air Pollution Control.	3
MECH 534	Air Pollution Engineering.	3

Soil and Water Quality Management Course

3-4 credits from the following:

Expand allContract all

Course	Title	Credits
BREE 533	Water Quality Management.	3
CIVE 686	Site Remediation.	4

Environmental Impact Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
GEOG 601	Advanced Environmental Systems Modelling.	3

or an approved 500-, 600-, or 700-level alternative.

Environmental Policy Course

3 credits from the following:

Expand allContract all

Course	Title	Credits
URBP 506	Environmental Policy and Planning.	3

or 3 credits approved at the 500-, 600-, or 700-level alternative.

Elective Courses (10-11 credits)

Another project course and/or Engineering or non-Engineering 500-, 600-, or 700-level course subject to approval of the Department.

The relevant Project course in Mining Engineering is the following:

Expand allContract all

Course	Title	Credits
MIME 629	Mineral Engineering Project 2.	6

Materials Engineering (Ph.D.)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department, selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course and, take a preliminary examination within their first year of Ph.D. study.

academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course, and take a preliminary examination within their first year of Ph.D. study.

The candidate must submit an acceptable thesis based upon successfully completed research and must satisfy the examiners in an oral examination of the thesis.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 701	Ph.D. Thesis Research Proposal.	0
MIME 703	Ph.D. Comprehensive Exam.	0
MIME 710D1	Ph.D. Foundation Course.	1.5
MIME 710D2	Ph.D. Foundation Course.	1.5
MIME 771	Research Seminar 2.	6

Complementary Courses (6 credits)

6 credits of courses at the 500 level or higher, approved by their supervisor.

Mining Engineering (Ph.D.)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

Candidates for this degree must complete a minimum of two lecture courses assigned by the Department, selected on the basis of previous academic training and research interests. Candidates must also pass a safety training course, participate in an appropriate Research Seminar course and, take a preliminary examination within their first year of Ph.D. study.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field.

in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 702	Ph.D. Preliminary Examination .	0
MIME 704	Ph.D. Comprehensive Examination in Mining Engineering .	0
MIME 776	Ph.D. Research Seminar.	6

Complementary Courses (6 credits)

6 credits of courses at the 500 level or higher, approved by their supervisor.

Mining Engineering (Gr. Dip.) (30 credits)

Offered by: Mining & Materials Engineering (Faculty of Engineering)

Program credit weight: 30

Program Description

The Graduate Diploma is a one-year, course-based, 30-credit program in Mining Engineering. The program offers professional development education in mining engineering in a formal manner.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIME 601	Engineering Laboratory Practice.	0
MIME 673	Mining Engineering Seminar.	6

Complementary Courses (24 credits)

24 credits of courses at the 500 level or higher selected from within and/or outside the department in consultation with the Program Advisor.

Sustainability in Engineering and Design (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Trottier Inst Sust,Eng&Design (Faculty of Engineering)

Degree: Master of Engineering

Program credit weight: 45

Program Description

The Master of Engineering in Sustainability in Engineering and Design; Non-Thesis, focuses on the critical sustainability challenges of the 21st century. The program provides students with the opportunity to

apply systems-based frameworks and sustainability metrics to analyze problems and design solutions for sustainability in engineering and design. It provides an interdisciplinary working environment for those working on sustainability.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
SEAD 500	Foundations of Sustainability for Engineering and Design.	3
SEAD 510	Energy Analysis.	4
SEAD 520	Life Cycle-Based Environmental Footprinting .	3
SEAD 530	Economics for Sustainability in Engineering and Design.	3
SEAD 540	Industrial Ecology and Systems.	3
SEAD 550	Decision-Making for Sustainability in Engineering and Design.	3
SEAD 660	Strategies for Sustainability .	3
SEAD 670	Collaborative Design for Sustainability.	5

Complementary Courses (18 credits)

Students will take 12 to 18 credits from courses in one or two streams:

Stream 1 - Sustainable Processes and Manufacturing

Expand allContract all

Course	Title	Credits
CHEE 511	Catalysis for Sustainable Fuels and Chemicals.	3
CHEE 521	Nanomaterials and the Aquatic Environment.	3
CIVE 521	Nanomaterials and the Aquatic Environment.	3
CIVE 663	Environmental Fate of Organic Chemicals.	4
CIVE 677	Water-Energy Sustainability.	4
MECH 534	Air Pollution Engineering.	3
MECH 560	Eco-design and Product Life Cycle Assessment .	3
MIME 511	Advanced Subsurface Ventilation and Air Conditioning.	3
MIME 514	Sustainability Analysis of Mining Systems.	3
MIME 556	Sustainable Materials Processing.	3
MIME 588	Reliability Analysis of Mining Systems.	3
URBP 506	Environmental Policy and Planning.	3

¹ Students can take only one of CHEE 521 Nanomaterials and the Aquatic Environment. or CIVE 521 Nanomaterials and the Aquatic Environment.

Stream 2 - Renewable Energy and Energy Efficiency

Expand allContract all

Course	Title	Credits				
CHEE 511	Catalysis for Sustainable Fuels and Chemicals.	3	CIVE 550	Water Resources Management.	3	
CIVE 570	Solar Driven Environmental Processes and Technologies	3	CIVE 555	Environmental Data Analysis.	3	
CIVE 677	Water-Energy Sustainability.	4	CIVE 660	Chemical and Physical Treatment of Waters.	4	
ECSE 562	Low-Carbon Power Generation Engineering.	4	CIVE 686	Site Remediation.	4	
MECH 534	Air Pollution Engineering.	3	ECSE 507	Optimization and Optimal Control.	3	
MECH 579	Numerical Optimization	3	ECSE 563	Power Systems Operation and Planning.	3	
			MECH 535	Turbomachinery and Propulsion.	3	
			MECH 559	Engineering Systems Optimization.	3	
			MIME 556	Sustainable Materials Processing.	3	
			SEAD 560	Special Topics in Sustainability in Engineering and Design	3	

Stream 3 - Sustainable Urban Development

Expand allContract all

Course	Title	Credits				
ARCH 515	Sustainable Design.	3	SEAD 600	Sustainability Research 1.	3	
ARCH 517	Sustainable Residential Development.	3	SEAD 602	Sustainability Research 2 .	3	
ARCH 564	Design for Development.	3	URBP 619	Land Use and Transport Planning.	4	
MECH 534	Air Pollution Engineering.	3				
URBP 504	Planning for Active Transportation.	3				
URBP 551	Urban Design and Planning.	3				
URBP 620	Transport Economics.	4				
URBP 651	Redesigning Suburban Space.	3				

Stream 4 - Sustainable Infrastructure

Expand allContract all

Course	Title	Credits				
ARCH 515	Sustainable Design.	3				
ARCH 564	Design for Development.	3				
CIVE 540	Urban Transportation Planning.	3				
CIVE 621	Sustainable Design of Municipal Systems.	4				
CIVE 623	Durability of Construction Materials .	4				
CIVE 629	Sustainable Design: Water and Wastewater Facilities .	4				
CIVE 652	Bioprocesses for Wastewater Resource Recovery.	4				
SEAD 515	Climate Change Adaptation and Engineering Infrastructure .	3				
URBP 620	Transport Economics.	4				
URBP 651	Redesigning Suburban Space.	3				

Sustainability in Engineering and Design Technical

0-6 credits from the following:

Expand allContract all

Course	Title	Credits				
BIEN 520	High Throughput Bioanalytical Devices.	3				
BREE 518	Ecological Engineering.	3				
CHEE 515	Interface Design: Biomimetic Approach.	3				
BREE 520	Food, Fibre and Fuel Elements.	3				
CHEE 541	Electrochemical Engineering.	3				
CHEE 543	Plasma Engineering.	3				

Urban Planning, Policy and Design (Thesis) (M.Sc.) (45 credits)

Offered by: Urban Planning (Faculty of Engineering)**Degree:** Master of Science**Program credit weight:** 45

Program Description

The M.Sc. in Urban Planning, Policy and Design (Thesis) is centred on an independent research thesis. Original research on an urban issue of interest with implications for planning, policy or design will be conducted. The program focuses on critical skills in research, analysis and interpretation that are applicable in both academia and practice.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
URBP 606D1	Research Seminar.	3
URBP 606D2	Research Seminar.	3
URBP 612	History and Theory of Planning.	3
URBP 690	Thesis Submission.	18

Complementary Courses (12 credits)

9 credits selected from among the 500 or 600 level URBP courses offered by the School.

3 credits selected from the following research methods courses:

Expand allContract all

Course	Title	Credits
URBP 605	Geographic Information Systems.	3
URBP 608	Advanced Spatial Methods for Planning and Policy	3
URBP 633	Research Methods for Planners.	3
URBP 640	Introduction to Planning Statistics.	1
URBP 641	Reading the Urban Landscape .	1
URBP 642	Introduction to Planning Data.	1
URBP 643	Selected Geographic Information Systems Applications .	1
URBP 644	Multivariate Statistics.	1
URBP 645	Social Research Methods 1.	1
URBP 646	Social Research Methods 2.	1
URBP 647	Selected Methods in Planning 1.	1
URBP 648	Selected Methods in Planning 2 .	1

Note: Students may also take research methods courses at the 500 or 600 level in other academic units at McGill or another Montreal university, subject to the approval of the School.

Elective Courses (6 credits)

6 credits offered at the 500 or 600 level by any academic units at McGill or at another Montreal university, with the approval of the School, if they are related to one or more subject areas in the field of planning. Choices usually include courses in urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm with the Thesis Supervisor prior to registration that the selected course(s) can be counted toward the M.Sc. program.

Urban Planning (Non-Thesis) (M.U.P.) (60 credits)

Offered by: Urban Planning (Faculty of Engineering)

Degree: Master of Urban Planning

Program credit weight: 60

Program Description

The M.U.P. requires two years of study and research including a three-month summer internship in a professional setting. Upon completion of the program, graduates are expected to have acquired basic planning skills, a broad understanding of urban issues, and specialized knowledge in a field of their own choice.

** Students interested in the Barbados Field Study semester option should contact the department on its availability **

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
URBP 609	Visual Communication 1.	1
URBP 610	Visual Communication 2.	1
URBP 611	Data Visualization for Planning.	1

URBP 612	History and Theory of Planning.	3
URBP 622	Planning Studio 1.	6
URBP 623	Planning Studio 2.	6
URBP 624	Planning Studio 3.	6
URBP 628	Practical Experience.	0
URBP 630	Supervised Research Project 1.	3
URBP 631	Supervised Research Project 2.	3
URBP 632	Supervised Research Project 3.	6
URBP 635	Planning Law.	3
URBP 640	Introduction to Planning Statistics.	1
URBP 641	Reading the Urban Landscape .	1
URBP 642	Introduction to Planning Data.	1

Complementary Courses (18 credits)

Students are encouraged to complete at least one course in each of the four areas of design, environment, housing, and transportation.

Group A

9-18 credits from the following:

Expand allContract all

Course	Title	Credits
ARCH 515	Sustainable Design.	3
CIVE 540	Urban Transportation Planning.	3
CIVE 561	Greenhouse Gas Emissions.	3
GEOG 504	Advanced Economic Geography.	3
GEOG 525	Asian Cities in the 21st Century.	3
URBP 501	Principles and Practice 1.	2
URBP 503	Public Transport: Planning and Operations.	3
URBP 504	Planning for Active Transportation.	3
URBP 506	Environmental Policy and Planning.	3
URBP 514	Community Design Workshop.	3
URBP 530	Urban Infrastructure and Services in International Context .	3
URBP 536	Current Issues in Transportation 1.	2
URBP 537	Current Issues in Transportation 2.	2
URBP 541	Selected Topics in Planning.	1
URBP 542	Selected Topics in Visual Analysis.	1
URBP 543	Special Topics.	3
URBP 553	Urban Governance.	3
URBP 555	Real Estate and Planning.	3
URBP 556	Urban Economy: A Spatial Perspective.	3
URBP 557	Rethinking Zoning.	3
URBP 605	Geographic Information Systems.	3
URBP 607	Reading Course: Urban Planning.	3
URBP 608	Advanced Spatial Methods for Planning and Policy	3

URBP 616	Selected Topics 1.	3	URBP 612	History and Theory of Planning.	3
URBP 617	Selected Topics 2.	3	URBP 619	Land Use and Transport Planning.	4
URBP 618	Selected Topics 3.	3	URBP 622	Planning Studio 1.	6
URBP 619	Land Use and Transport Planning.	4	URBP 623	Planning Studio 2.	6
URBP 620	Transport Economics.	4	URBP 624	Planning Studio 3.	6
URBP 625	Principles and Practice 2.	2	URBP 628	Practical Experience.	0
URBP 626	Principles and Practice 3.	2	URBP 630	Supervised Research Project 1.	3
URBP 629	Planning Theory and Practice in a Globalizing World.	3	URBP 631	Supervised Research Project 2.	3
URBP 643	Selected Geographic Information Systems Applications .	1	URBP 632	Supervised Research Project 3.	6
URBP 644	Multivariate Statistics.	1	URBP 635	Planning Law.	3
URBP 645	Social Research Methods 1.	1	URBP 640	Introduction to Planning Statistics.	1
URBP 646	Social Research Methods 2.	1	URBP 641	Reading the Urban Landscape .	1
URBP 647	Selected Methods in Planning 1.	1	URBP 642	Introduction to Planning Data.	1
URBP 648	Selected Methods in Planning 2.	1			
URBP 649	Visual and Spatial Methods .	1			
URBP 651	Redesigning Suburban Space.	3			
URBP 656	Urban Innovation and Creativity.	3			

Group B

0-9 credits at the 500 or 600 level of coursework offered by any academic unit at McGill or at another Montreal university, with the approval of the School, if they help students to develop an in-depth knowledge of one or more subject areas in the field of planning, with the approval of the School. Choices usually include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the selected course(s) can be counted toward the M.U.P. degree.

Urban Planning (Non-Thesis): Transportation Planning (M.U.P.) (60 credits)

Offered by: Urban Planning (Faculty of Engineering)

Degree: Master of Urban Planning

Program credit weight: 60

Program Description

The Master of Urban Planning (M.U.P.) Urban Planning (Non-Thesis); Transportation Planning option enables students to specialize in this field as part of their course of study for the Master of Urban Planning degree (M.U.P.). Studio courses, an internship, and a final project involve real-life applications and research.

Required Courses (49 credits)

Expand allContract all

Course	Title	Credits
URBP 605	Geographic Information Systems.	3
URBP 609	Visual Communication 1.	1
URBP 610	Visual Communication 2.	1
URBP 611	Data Visualization for Planning.	1

Complementary Courses (11 credits)

Group A

5-11 credits from the following:

Expand allContract all

Course	Title	Credits
CIVE 540	Urban Transportation Planning.	3
CIVE 561	Greenhouse Gas Emissions.	3
CIVE 661	Modelling of Transportation Emissions.	4
URBP 503	Public Transport: Planning and Operations.	3
URBP 504	Planning for Active Transportation.	3
URBP 506	Environmental Policy and Planning.	3
URBP 536	Current Issues in Transportation 1.	2
URBP 537	Current Issues in Transportation 2.	2
URBP 608	Advanced Spatial Methods for Planning and Policy	3
URBP 620	Transport Economics.	4
URBP 643	Selected Geographic Information Systems Applications .	1

Group B

0-6 credits of coursework at the 500 or 600 level offered by any offered by any academic unit at McGill or another Montreal university, with the approval of the School, if they help students to develop an in-depth knowledge of one or more subject areas in the field of planning. Choices usually include courses in real-estate analysis, urban geography, sociology, anthropology, law, politics, and environmental science. Students must confirm prior to registration that the selected course(s) can be counted toward the M.U.P. degree.

Urban Planning (Non-Thesis): Urban Development and Urban Design (M.U.P.) (60 credits)

Offered by: Urban Planning (Faculty of Engineering)

Degree: Master of Urban Planning

Program credit weight: 60

Program Description

The concentration in Urban Development and Urban Design aims to produce graduates who are skilled in analysis and design for development in existing (sub)urban landscapes and urbanizing contexts, whether in North America or elsewhere. A series of courses on urban design, real estate, the politics of development, and urban governance enhance the core curriculum of the professionally-accredited M.U.P. program. Additional courses address innovative approaches to urban development, contemporary urban form, community-based design, globalization and development, and the adaptive redesign of suburban contexts, in addition to enduring topics such as housing, public space, cultural landscapes, and environmental planning. Students seeking to specialize in Urban Development and Urban Design apply at the end of their first year of study; admission into the concentration is based on performance in the first year of study and demonstration of spatial literacy, numeric competency, skills in graphic communication, and understanding of complex development processes.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
URBP 553	Urban Governance.	3
URBP 609	Visual Communication 1.	1
URBP 610	Visual Communication 2.	1
URBP 611	Data Visualization for Planning.	1
URBP 612	History and Theory of Planning.	3
URBP 622	Planning Studio 1.	6
URBP 623	Planning Studio 2.	6
URBP 624	Planning Studio 3.	6
URBP 628	Practical Experience.	0
URBP 630	Supervised Research Project 1.	3
URBP 631	Supervised Research Project 2.	3
URBP 632	Supervised Research Project 3.	6
URBP 635	Planning Law.	3
URBP 640	Introduction to Planning Statistics.	1
URBP 641	Reading the Urban Landscape .	1
URBP 642	Introduction to Planning Data.	1

Complementary Courses (15 credits)

Group A

9-15 credits from the following:

Expand allContract all

Course	Title	Credits
URBP 555	Real Estate and Planning.	3
URBP 557	Rethinking Zoning.	3
URBP 605	Geographic Information Systems.	3
URBP 620	Transport Economics.	4
URBP 629	Planning Theory and Practice in a Globalizing World.	3
URBP 651	Redesigning Suburban Space.	3
URBP 656	Urban Innovation and Creativity.	3

Group B (0-6 credits)

0-6 credits from the following or other 500 or 600 level courses (see note below):

Expand allContract all

Course	Title	Credits
ARCH 515	Sustainable Design.	3
GEOG 525	Asian Cities in the 21st Century.	3
URBP 501	Principles and Practice 1.	2
URBP 503	Public Transport: Planning and Operations.	3
URBP 504	Planning for Active Transportation.	3
URBP 506	Environmental Policy and Planning.	3
URBP 514	Community Design Workshop.	3
URBP 530	Urban Infrastructure and Services in International Context .	3
URBP 541	Selected Topics in Planning.	1
URBP 542	Selected Topics in Visual Analysis.	1
URBP 543	Special Topics.	3
URBP 556	Urban Economy: A Spatial Perspective.	3
URBP 607	Reading Course: Urban Planning.	3
URBP 616	Selected Topics 1.	3
URBP 617	Selected Topics 2.	3
URBP 618	Selected Topics 3.	3
URBP 619	Land Use and Transport Planning.	4
URBP 625	Principles and Practice 2.	2
URBP 626	Principles and Practice 3.	2
URBP 643	Selected Geographic Information Systems Applications .	1
URBP 644	Multivariate Statistics.	1
URBP 645	Social Research Methods 1.	1
URBP 646	Social Research Methods 2.	1
URBP 647	Selected Methods in Planning 1.	1

URBP 648	Selected Methods in Planning 2.	1
URBP 649	Visual and Spatial Methods .	1

Students may also take courses at the 500 or 600 level in any academic unit at McGill or at another Montreal university, subject to the approval of the School.

Urban Planning, Policy and Design (Ph.D.)

Offered by: Urban Planning (Faculty of Engineering)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Urban Planning, Policy and Design aims to prepare students for interdisciplinary research and teaching on the management of urban development as well as for leadership in the design and evaluation of urban policies and plans for cities in North America and the world. The program will focus on five identified areas of urban planning (land use planning and urban design; environmental planning; transportation planning; international development planning; real estate and economic development). Students are expected to spend the first two years of study taking courses, preparing for their comprehensive examination and writing their dissertation proposal. The remaining two (or more) years are spent conducting research and writing a thesis.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Every student must take courses worth at least 18 credits. Only one reading course can be included in this minimum requirement. The Advisory Committee may raise the requirement up to 24 credits (up to 36 credits for students entering as Ph.D. 1) in order to meet the specific needs of the student. With approval of their committee, students may elect to take a larger number of courses than is required, but in no case will the number of credits exceed thirty unless the student enters the program in Ph.D.1.

Expand allContract all

Course	Title	Credits
URBP 612	History and Theory of Planning.	3
URBP 701	Doctoral Comprehensive Examination.	0
URBP 703	Doctoral Research Seminar 1.	3
URBP 704	Doctoral Research Seminar 2.	3
URBP 709	Doctoral Research Proposal.	0

Complementary Courses (6 credits)

3 credits in advanced research methods at the 600 level or higher. It may be taken in any academic unit at McGill or another university, subject to the approval of the Graduate Program or School Director.

3 credits in advanced theory at the 600 level or higher. It may be taken at McGill or at another university and must be approved by the Graduate Program or School Director.

Elective Courses (3 credits)

Minimum 3 credits at the 500 level or higher, or more if the Advisory Committee so decides.

These credits may be taken in any academic unit at McGill or at another university, subject to the approval of the Advisory Committee.

The Advisory Committee may require that the number of electives be increased to improve the student's preparation in certain areas. Other courses, at the 500 level or higher, may be added with the approval of the Advisory Committee. In general, students will be asked to limit their elective coursework to 9 credits. In no case will they be allowed to take more than 15 credits in elective courses.

Up to two reading courses may be taken and only one may be included in the minimum 18 credits of course work. A reading course is taken when no appropriate course is available and is (at least) equivalent to a 3-credit course in terms of work load. Procedures for reading courses are outlined in the Reading Course guidelines.

Biological and Biomedical Engineering (Thesis) (M.Sc.) (45 credits)

Offered by: Biological & Biomedical Engineering

Degree: Master of Science

Program credit weight: 45

Program Description

The Biological and Biomedical Engineering (BBME) Master's program focuses on the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. With its unique multidisciplinary environment, and taking advantage of research collaborations between staff in the Faculties of Medicine, Science, and Engineering, BBME offers thesis-based graduate degrees (M.Sc.) that span broad themes in biomodelling, biosignal processing, medical imaging, nanotechnology, artificial cells and organs, probiotics, bioinformatics, bioengineering, biomaterials, and orthopaedics.

BBME's internationally renowned staff provide frequent and stimulating interactions with physicians, scientists, and the biomedical industry.

Through courses and thesis research, this program will prepare students for careers in industry, academia, hospitals and government and provide a solid basis for Ph.D. studies. Candidates should hold a bachelor's degree in engineering, science, or medicine with a strong emphasis on mathematics, physics, chemistry, and basic physiology or cell biology.

Thesis Courses (30 credits)

Expand all Contract all

Course	Title	Credits
BBME 693	Thesis Research 1.	6
BBME 694	Thesis Research 2.	6
BBME 695	Thesis Submission.	12
BBME 696	Thesis Research 3.	3
BBME 697	Thesis Research 4.	3

Required Courses (3 credits)

Expand all Contract all

Course	Title	Credits
BBME 600D1	Seminars in Biological and Biomedical Engineering.	1.5
BBME 600D2	Seminars in Biological and Biomedical Engineering.	1.5

OR

Expand all Contract all

Course	Title	Credits
BBME 600N1	Seminars in Biological and Biomedical Engineering.	1.5
BBME 600N2	Seminars in Biological and Biomedical Engineering.	1.5

Complementary Courses (12 credits)

3 credits from the following quantitative courses:

Expand all Contract all

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BIEN 550	Biomolecular Devices.	3
BIEN 560	Design of Biosensors.	3
BIEN 570	Active Mechanics in Biology.	3
BIEN 590	Cell Culture Engineering.	3
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3
BMDE 610	Functional Neuroimaging Fusion.	3
BMDE 650	Advanced Medical Imaging.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 660	Advanced MR Imaging and Spectroscopy of the Brain.	3
MDPH 607	Medical Imaging.	3

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BIEN 540	Information Storage and Processing in Biological Systems.	3
BIEN 550	Biomolecular Devices.	3
BIEN 560	Design of Biosensors.	3
BIEN 570	Active Mechanics in Biology.	3
BIEN 590	Cell Culture Engineering.	3
BIEN 680	Bioprocessing of Vaccines.	4

BMDE 501	Selected Topics in Biomedical Engineering.	3
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 504	Biomaterials and Bioperformance.	3
BMDE 505	Cell and Tissue Engineering.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3
BMDE 525D1	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 525D2	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 610	Functional Neuroimaging Fusion.	3
BMDE 650	Advanced Medical Imaging.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 660	Advanced MR Imaging and Spectroscopy of the Brain.	3
MDPH 607	Medical Imaging.	3

6 credits at the 500-level or higher chosen from a list on the program web site <https://www.mcgill.ca/bbme/students/courses> or from other courses, at the 500 level or higher, at least 3 credits of which have both life sciences content and content from the physical sciences, engineering, or computer science, with the prior written approval of the Thesis Supervisor and the Graduate Program Director.

Biological and Biomedical Engineering (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Biological & Biomedical Engineering

Degree: Master of Engineering

Program credit weight: 45

Program Description

This program is currently not offered.

The M.Eng. in Biological and Biomedical Engineering; Non-Thesis program focuses on the life sciences, the physical sciences, and engineering, industrial practices and processes, and data science

3 credits from the following:

Expand all Contract all

related to areas such as biological products, biomedical devices, and medical imaging. Hands-on experience through projects carried out during internships.

Internship Courses (18 credits)

Expand allContract all

Course	Title	Credits
BBME 681	Internship 1.	9
BBME 682	Internship 2.	9

Complementary Courses (27 credits)

Expand allContract all

Course	Title	Credits
BBME 600D1	Seminars in Biological and Biomedical Engineering.	1.5
BBME 600D2	Seminars in Biological and Biomedical Engineering.	1.5
BBME 600N1	Seminars in Biological and Biomedical Engineering.	1.5
BBME 600N2	Seminars in Biological and Biomedical Engineering.	1.5
BIEN 601	cGMP and Regulation in Biomanufacturing.	3

¹ Students take either BBME 600D1 Seminars in Biological and Biomedical Engineering. and BBME 600D2 Seminars in Biological and Biomedical Engineering. or BBME 600N1 Seminars in Biological and Biomedical Engineering. and BBME 600N2 Seminars in Biological and Biomedical Engineering..

Minimum of 12 credits must come from the core courses listed below. At least 6 credits must be chosen from the "quantitative" courses listed below:

Quantitative Core Courses

Expand allContract all

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BIEN 550	Biomolecular Devices.	3
BIEN 560	Design of Biosensors.	3
BIEN 570	Active Mechanics in Biology.	3
BIEN 590	Cell Culture Engineering.	3
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3
BMDE 520	Machine Learning for Biomedical Data.	3
BMDE 610	Functional Neuroimaging Fusion.	3

BMDE 660	Advanced MR Imaging and Spectroscopy of the Brain.	3
MDPH 607	Medical Imaging.	3

Non-Quantitative Core Courses

Expand allContract all

Course	Title	Credits
BIEN 535	Electron Microscopy and 3D Imaging for Biological Materials.	3
BIEN 540	Information Storage and Processing in Biological Systems.	3
BIEN 580	Synthetic Biology.	3
BIEN 680	Bioprocessing of Vaccines.	4
BMDE 501	Selected Topics in Biomedical Engineering.	3
BMDE 504	Biomaterials and Bioperformance.	3
BMDE 505	Cell and Tissue Engineering.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3
BMDE 525D1	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 525D2	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 650	Advanced Medical Imaging.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3

The remaining 12 credits of complementary courses must come from core or non-core complementary courses chosen from BBME courses or from other courses at the 500 level or higher. At least 6 of the 12 credits must have both life sciences content and content from the physical sciences, engineering or computer science. The selection of courses must have the prior written approval of the Graduate Program Director.

Biological and Biomedical Engineering - Biomanufacturing (Non-Thesis) (M.Eng.) (45 credits)

Offered by: Biological & Biomedical Engineering

Degree: Master of Engineering

Program credit weight: 45

Program Description

The M.Eng. in Biological and Biomedical Engineering; Non-Thesis - Biomanufacturing focuses on the life sciences, the physical sciences, and engineering, industrial practices and processes, and data science for application in the field of biomanufacturing. Hands-on experience available through projects carried out during internships in academic, industrial, and governmental laboratories.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
BBME 681	Internship 1. ¹	9
BBME 682	Internship 2. ¹	9
BIEN 601	cGMP and Regulation in Biomanufacturing.	3

¹ must take place in the Biomanufacturing sector

Complementary Courses (24 credits)

Minimum of 18 credits from the following three lists of core courses. At least 12 credits must be chosen from biomanufacturing core courses. At least 12 credits must be chosen from BBME core courses, of which at least 6 credits must be chosen from quantitative courses.

Biomanufacturing Core

Expand allContract all

Course	Title	Credits
BIEN 580	Synthetic Biology.	3
BIEN 585	Metabolic Engineering.	3
BIEN 590	Cell Culture Engineering.	3
BIEN 602	Biomanufacturing for RNA Biologics .	3
BIEN 670	Downstream Processing .	3
BIEN 675	Process Analytical Technologies and Data Sciences .	3
BIEN 680	Bioprocessing of Vaccines.	4
BIEN 685	Gene and Cell Therapy Viral Vectors Biomanufacturing.	3
BMDE 505	Cell and Tissue Engineering.	3
BMDE 507	Formulation and Delivery of Biotherapeutics.	3
CHEE 512	Stem Cell Bioprocess Engineering.	3
CHEE 651	Advanced Biochemical Engineering.	4

BBME Courses (Quantitative)

Expand allContract all

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BIEN 550	Biomolecular Devices.	3
BIEN 560	Design of Biosensors.	3
BIEN 570	Active Mechanics in Biology.	3
BIEN 590	Cell Culture Engineering.	3
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3
BMDE 520	Machine Learning for Biomedical Data.	3
BMDE 610	Functional Neuroimaging Fusion.	3

BBME Core (Non-Quantitative)

Expand allContract all

Course	Title	Credits
BIEN 500	Special Topics in Bioengineering 1.	3
BIEN 535	Electron Microscopy and 3D Imaging for Biological Materials.	3
BIEN 540	Information Storage and Processing in Biological Systems.	3
BIEN 580	Synthetic Biology.	3
BIEN 680	Bioprocessing of Vaccines.	4
BMDE 501	Selected Topics in Biomedical Engineering.	3
BMDE 504	Biomaterials and Bioperformance.	3
BMDE 505	Cell and Tissue Engineering.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3
BMDE 525D1	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 525D2	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 650	Advanced Medical Imaging.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3

Remaining complementary course credits must come from core or non-core complementary courses chosen from BBME courses or from other courses, at the 500 level or higher. The selection of courses must have the prior written approval of the Graduate Program Director.

Biological and Biomedical Engineering (Ph.D.)

Offered by: Biological & Biomedical Engineering

Degree: Doctor of Philosophy

Program Description

The goal of the Biological and Biomedical Engineering Ph.D. program is for students to gain advanced training in the interdisciplinary application of methods, paradigms, technologies, and devices from engineering and the natural sciences to problems in biology, medicine, and the life sciences. The program will focus in an area of choice while integrating quantitative concepts and engineering tools for the study of life sciences and/or for patient care. As part of the Ph.D. requirement, the student will integrate the scientific method, develop critical and deep thinking, and acquire advanced writing and presentation skills that will form the foundation for his/her career. Under the guidance of his/her supervisor, the student will tackle a research challenge and make original contributions to the advancement of science and engineering in an area of Biological and Biomedical Engineering. The program will prepare students for careers in academia, industry, hospitals and government. Students who complete the program will obtain a Doctor of Philosophy in Biological and Biomedical Engineering. The best preparation for this program is a Master's degree in BBME or a related discipline.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show

familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

Expand allContract all

Course	Title	Credits
BBME 701	Ph.D. Comprehensive Examination.	0

Students must be registered in this course at the time of the Thesis Proposal and Comprehensive Exam Meeting.

Further courses may be required by the supervisor(s) in consultation with the Graduate Program Director, depending on the educational background of individual students.

Biologics Manufacturing (Gr. Cert.) (15 credits)

Offered by: Bioengineering (Faculty of Engineering)

Program credit weight: 15-16

Program Description

The Graduate Certificate in Biologics Manufacturing focuses on the life sciences, the physical sciences, engineering, industrial practices and process sciences, regulatory requirements for biologics and data science for application in the sector of biologics manufacturing driven by the concept manufacturing 4.0.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIEN 590	Cell Culture Engineering.	3
BIEN 601	cGMP and Regulation in Biomanufacturing.	3
BIEN 670	Downstream Processing .	3
BIEN 675	Process Analytical Technologies and Data Sciences .	3

Complementary Courses (3-4 credits)

3 or 4 credits from the following:

Expand allContract all

Course	Title	Credits
BIEN 602	Biomanufacturing for RNA Biologics .	3
BIEN 680	Bioprocessing of Vaccines.	4
BIEN 685	Gene and Cell Therapy Viral Vectors Biomanufacturing.	3
CHEE 512	Stem Cell Bioprocess Engineering.	3
CHEE 651	Advanced Biochemical Engineering.	4

Foundations in Health Sciences Education (Gr. Cert.) (15 credits)

Offered by: Fndtns in Health Sciences Educ (Faculty of Medicine and Health Sciences)

Program credit weight: 15

Program Description

The Graduate Certificate in Foundations in Health Sciences Education focuses on theoretical and evidence-based knowledge and practical skills in the areas of teaching and learning, curriculum and course design, assessment and evaluation, leadership, and scholarship as applied to health sciences education. Program content includes contemporary educational and psychological concepts, theories, and evidence-based practices relevant to specific contexts in which health and health science professionals practice, and the different educational roles they are likely to assume. The blended learning format includes face-to-face instruction, and synchronous and asynchronous online learning. The program includes project-based assignments that build on one another, provide opportunities to integrate courses, and explore their application to authentic personal contexts.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPE 657	Learning, Cognition, and Motivation in Health Sciences Educ.	3
EDPE 658	Introduction to HSE Curriculum and Program Development.	3
EDPE 659	Introduction to Assessment and Evaluation in HSE .	3
HSED 601	Introduction to Leadership in Health Sciences Education .	3
HSED 602	Introduction to Scholarship in Health Sciences Education.	3

Health Sciences Education (Ph.D.)

Offered by: Institute of Health Sciences Education (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Health Sciences Education focuses on research training, including investigation into issues related to healthcare, health professions education, and health policy education in the biomedical and health social sciences.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
HSED 701	PhD Comprehensive Examination.	0
HSED 702D1	Advanced Topics in Health Sciences Education.	3

HSED 702D2	Advanced Topics in Health Sciences Education.	3
HSED 703	Research Design for Health Sciences Education.	3

Complementary Courses (3 credits)

3 credits from the following:

Psychiatry

Expand allContract all

Course	Title	Credits
PSYT 625	Qualitative Research in Health Care.	3

Family Medicine

Expand allContract all

Course	Title	Credits
FMED 509	Epidemiology and Data Analysis in Primary Care 2.	3
FMED 604	Advanced Participatory Research in Health.	3
FMED 625	Introduction to Qualitative Research in Health.	3
FMED 690	Advanced Ethnography: Context, Complexity and Coordination.	3

Nursing

Expand allContract all

Course	Title	Credits
NUR2 702	Quantitative Research.	3
NUR2 706	Qualitative Nursing Research.	3

Management

Expand allContract all

Course	Title	Credits
MGPO 701	Seminar in Qualitative Methods.	3

Education

Expand allContract all

Course	Title	Credits
EDEC 707	Interpretive Inquiry.	3
EDPE 682	Univariate/Multivariate Analysis.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3

Sociology

Expand allContract all

Course	Title	Credits
SOCI 588	Biosociology/Biodemography.	3

Electives (0-9)

Depending on the student's prior coursework and in consultation with the Supervisor and/or Doctoral Advisory Committee, an additional 0-9 credits of elective courses at the 500 level or higher may be required.

Neuroscience (Thesis) (M.Sc.) (45 credits)

Offered by: Neuroscience, Integrated Pgm (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Neuroscience; Thesis program is a graduate research-based program of 45 credits. The program offers opportunities for cutting-edge research in diverse fields of neuroscience, ranging from cellular and molecular, to behavioural and cognitive. The program provides research in multiple branches of neuroscience.

Required Courses (36 credits)

Expand allContract all

Course	Title	Credits
NEUR 696	Master's Thesis Research.	6
NEUR 697	Master's Thesis Proposal.	9
NEUR 698	Master's Seminar Presentation.	9
NEUR 699	Master's Thesis Submission.	12
NEUR 705	Responsible Research Conduct.	0

Complementary Courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
NEUR 630	Principles of Neuroscience 1.	3
NEUR 631	Principles of Neuroscience 2.	3

And 6 credits in other courses at the 500 level or higher that are relevant to the program.

Upon recommendation, depending upon their particular background and needs, students may be requested to take additional selected courses at the 500 level or higher.

Note: All M.Sc.-level students must register for a minimum of 12 credits per term during the first three terms of their master's program.

Neuroscience (Ph.D.)

Offered by: Neuroscience, Integrated Pgm (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Neuroscience involves conducting neuroscientific research that leads to a written thesis. The program offers opportunities for cutting-edge research in diverse fields of neuroscience, ranging from cellular and molecular, to behavioural

and cognitive. The program provides research in multiple branches of neuroscience.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
NEUR 630	Principles of Neuroscience 1.	3
NEUR 631	Principles of Neuroscience 2.	3
NEUR 700	Doctoral Candidacy Examination.	0
NEUR 705	Responsible Research Conduct.	0

Complementary Courses (6 credits)

6 credits at the 500, 600, or 700 level, approved by the graduate program advisor.

Quantitative Life Sciences (Ph.D.)

Offered by: Quantitative Life Sciences

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
QLSC 600D1	Foundations of Quantitative Life Sciences.	3
QLSC 600D2	Foundations of Quantitative Life Sciences.	3
QLSC 601D1	Quantitative Life Sciences Seminars 1.	0
QLSC 601D2	Quantitative Life Sciences Seminars 1.	0
QLSC 602D1	Quantitative Life Sciences Seminars 2.	0

QLSC 602D2	Quantitative Life Sciences Seminars 2.	0
QLSC 603D1	Quantitative Life Sciences Seminars 3.	0
QLSC 603D2	Quantitative Life Sciences Seminars 3.	0
QLSC 701	Ph.D. Comprehensive Exam.	0

Complementary Courses (9-11 credits)

Students will be required to take one or two courses from each of the Quantitative and Life Science Blocks for a total of three, stream-specific courses.

Biophysics Stream

Quantitative

Expand allContract all

Course	Title	Credits
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3
CHEM 514	Biophysical Chemistry.	3
CHEM 520	Methods in Chemical Biology.	3
COMP 551	Applied Machine Learning.	4
MATH 682	Statistical Inference.	4
PHYS 519	Advanced Biophysics.	3
PHYS 559	Advanced Statistical Mechanics.	3
QLSC 611	Directed Readings.	3

Life Sciences

Expand allContract all

Course	Title	Credits
BIOC 605	Protein Biology and Proteomics.	3
BIOL 551	Principles of Cellular Control.	3
PHGY 518	Artificial Cells.	3
QLSC 611	Directed Readings.	3

Computational and Statistical Molecular Biology Stream

Quantitative

Expand allContract all

Course	Title	Credits
BIOS 601	Epidemiology: Introduction and Statistical Models.	4
BMDE 502	BME Modelling and Identification.	3
COMP 551	Applied Machine Learning.	4
COMP 561	Computational Biology Methods and Research.	4
COMP 598	Topics in CS: Applications 1	4
HGEN 677	Statistical Concepts in Genetic and Genomic Analysis.	3
MATH 523	Generalized Linear Models.	4
MATH 533	Regression and Analysis of Variance.	4

MATH 680	Computation Intensive Statistics.
MATH 682	Statistical Inference.
QLSC 611	Directed Readings.

4 contributions to legal research and knowledge under the supervision of a faculty member.

Life Sciences

Expand allContract all

Course	Title	Credits
BIOC 603	Genomics and Gene Expression.	3
BIOL 551	Principles of Cellular Control.	3
EXMD 602	Techniques in Molecular Genetics.	3
HGEN 661	Population Genetics.	3
HGEN 692	Human Genetics.	3
PHAR 503	Drug Discovery and Development 1.	3
PHAR 505	Structural Pharmacology.	3
QLSC 611	Directed Readings.	3

3 The degree will be awarded, at the earliest, after the completion of three years of residence. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

Ecosystems Stream

Quantitative

Expand allContract all

Course	Title	Credits
ENVB 506	Quantitative Methods: Ecology.	3
MATH 523	Generalized Linear Models.	4
MATH 525	Sampling Theory and Applications.	4
MATH 533	Regression and Analysis of Variance.	4
MATH 537	Honours Mathematical Models in Biology.	4
MATH 547	Stochastic Processes.	4
MATH 556	Mathematical Statistics 1.	4
MATH 682	Statistical Inference.	4
QLSC 611	Directed Readings.	3

ASPL 701 Comprehensive - Air/Space Law. 0

Life Sciences

Expand allContract all

Course	Title	Credits
BIOL 510	Advances in Community Ecology. ¹	3
BIOL 540	Ecology of Species Invasions.	3
BIOL 594	Advanced Evolutionary Ecology.	3
ENVR 540	Ecology of Species Invasions.	3
QLSC 611	Directed Readings.	3

CMPL 641 Theoretical Approaches to Law. 3

LAWG 702 Legal Research Methodology for DCL. 2

LAWG 703 Literature Review, Analysis and Proposal. 0

LAWG 704 DCL Research Seminar 1. 0

LAWG 705 DCL Research Seminar 2. 0

1

Students either choose BIOL 540 Ecology of Species Invasions, or ENVR 540 Ecology of Species Invasions, but not both

Air and Space Law (D.C.L.)

Offered by: Air and Space Law (Faculty of Law)

Degree: Doctor of Civil Law

Program Description

The Institute of Air & Space Law offers a D.C.L. program in Air and Space Law, which allows the development of substantive and original

4 contributions to legal research and knowledge under the supervision of a faculty member.

3 The degree will be awarded, at the earliest, after the completion of three years of residence. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

Required Courses (5 Credits)

Expand allContract all

Course Title Credits

CMPL 641 Theoretical Approaches to Law. 3

LAWG 702 Legal Research Methodology for DCL. 2

LAWG 703 Literature Review, Analysis and Proposal. 0

LAWG 704 DCL Research Seminar 1. 0

LAWG 705 DCL Research Seminar 2. 0

Complementary Course (0-3 Credits)

Some students are encouraged to take the following:

Expand allContract all

Course Title Credits

LAWG 601 Communication 1. 1.5

LAWG 602 Communication 2. 1.5

Air and Space Law (Gr. Cert.) (15 credits)

Offered by: Air and Space Law (Faculty of Law)

Program credit weight: 15

Program Description

The Graduate Certificate in Air and Space Law offered through the Institute of Air and Space Law is a coursework program, appropriate for students with a strong professional orientation.

The certificate is awarded after one term of residence in the Faculty and upon completion of 15 academic credits of graduate law courses. Students must take 9 credits of required Air and Space Law courses and the additional 6 credits may consist of any 500-level or higher law course or other courses offered through the Institute of Air and Space

Law. Exceptionally, and with the permission of the Associate Dean, Graduate Studies, the 15 credits may be taken over two terms.

For more information, see our website: <https://mcgill.ca/law/grad-studies/certificate-programs>.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ASPL 633	Public International Air Law.	3
ASPL 636	Private International Air Law.	3
ASPL 637	Space Law: General Principles.	3

Complementary Courses (6 credits)

6 additional credits of 500-level or higher law courses.

Comparative Law (Gr. Cert.) (15 credits)

Offered by: Comparative Law (Faculty of Law)

Program credit weight: 15

Program Description

This program is currently not offered.

The Graduate Certificate in Comparative Law is offered through the Institute of Comparative Law and provides advanced legal training over one term of full-time studies or two terms of part-time studies to candidates who wish to pursue graduate legal education for career-related purposes.

The certificate is awarded after one term of residence in the Faculty and upon completion of 15 credits. In every case, the program is structured to meet individual needs and must be approved by the Associate Dean (Graduate Studies).

For more information, see our website: <https://mcgill.ca/law/grad-studies/certificate-programs>.

Complementary Courses

Courses at the 500 level or higher are chosen on an individual basis.

Law (D.C.L.)

Offered by: Law (Faculty of Law)

Degree: Doctor of Civil Law

Program Description

The Doctor of Civil Law (D.C.L.) program allows the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member.

The degree will be awarded, at the earliest, after the completion of 3 years of residence in the Faculty. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within

4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

Comprehensive - Required

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

Expand allContract all

Course	Title	Credits
LAWG 701	Comprehensive Exam - Law.	0

Required Courses (5 Credits)

Expand allContract all

Course	Title	Credits
CMPL 641	Theoretical Approaches to Law.	3
LAWG 702	Legal Research Methodology for DCL.	2
LAWG 703	Literature Review, Analysis and Proposal.	0
LAWG 704	DCL Research Seminar 1.	0
LAWG 705	DCL Research Seminar 2.	0

Complementary Course (0-3 Credits)

Some students are encouraged to take the following:

Expand allContract all

Course	Title	Credits
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Law (Non-Thesis) (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

The 45-credit LL.M. non-thesis option complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the Summer of the first year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The supervised research project is a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and is typically completed in the Summer.

Expand allContract all

Course	Title	Credits
CMPL 655	Research Project 1.	15

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (21 credits)

The remaining 21 credits (or fewer if more credits are earned for the research project) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Research Project Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

Expand allContract all

Course	Title	Credits
CMPL 656	Research Project 2.	2
CMPL 657	Research Project 3.	1

Law (Non-Thesis): Air and Space Law (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

The 45-credit LL.M. program, non-thesis option, in Air and Space Law complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and includes a supervised substantial paper in an area of interest.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the summer of the first year. If the research project

is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

Expand allContract all

Course	Title	Credits
ASPL 655	Research Project 1.	15

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ASPL 633	Public International Air Law.	3
ASPL 636	Private International Air Law.	3
ASPL 637	Space Law: General Principles.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3

15 credits (or fewer if more credits are earned for the research project) at the 500 level or higher chosen from among Faculty offerings (including ASPL offerings).

Additional Research Project Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

Expand allContract all

Course	Title	Credits
ASPL 656	Research Project 2.	2
ASPL 657	Research Project 3.	1

Law (Non-Thesis): Comparative Law (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws
Program credit weight: 45

Program Description

** Availability of this program is subject to relevant courses being offered in a given year. **

The 45-credit LL.M. program, non-thesis option, in Comparative Law complements previous legal education through specialized graduate-level coursework and in-depth research. It enhances expertise in selected areas of legal scholarship and offers an opportunity to write a supervised, substantial, and publishable paper in an area of interest.

Candidates must remain in residence for three terms. The third term is devoted to the Research Project, usually taken in the summer of the first year, meaning that students usually complete their program within one calendar year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

Expand allContract all

Course	Title	Credits
CMPL 655	Research Project 1.	15

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CMPL 600	Legal Traditions.	3
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (18 credits)

The remaining 18 credits (or fewer if more credits are earned for the research project) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Research Project Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of research project courses by completing one or both of:

Expand allContract all

Course	Title	Credits
CMPL 656	Research Project 2.	2
CMPL 657	Research Project 3.	1

Law (Non-Thesis): Environment (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

This program is currently not offered.

The 45-credit, LL.M. program, non-thesis option, in Environment is offered in collaboration with the Bieler School of Environment. The program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues. It complements previous legal education through specialized graduate-level coursework and in-depth research. The program focuses on selected areas of legal scholarship and includes a written, supervised, substantial, and publishable paper in a area of interest related to the environment.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term is devoted to the Research Project, usually taken in the Summer of the first year, meaning that students usually complete their program within one calendar year. If the research project is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Research Project (15 credits)

The non-thesis option requires a substantial supervised research project during the third term of registration, a 15,000-word paper, assessed by the supervisor on a pass-fail basis, and typically completed in the Summer.

Expand allContract all

Course	Title	Credits
CMPL 655	Research Project 1.	15

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 615	Master's Thesis 4.	6
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (21 credits)

12-15 credits chosen from:

Expand allContract all

Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3
CMPL 546	International Environmental Law and Politics.	3
CMPL 580	Environment and the Law.	3

and/or other Faculty of Law offerings at the 500 level or higher.

3-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Law (Thesis) (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

The 45-credit LL.M. program, thesis option, is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

LL.M. candidates may be associated with the Centre for Human Rights and Legal Pluralism, the Quebec Research Centre of Private and Comparative Law, the Centre for Intellectual Property Policy, or one of the specialized Research Chairs at the Faculty of Law. For more information, see our Website: <https://mcgill.ca/law/grad-studies/masters-programs>.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed.

All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (30 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

Expand allContract all

Course	Title	Credits
CMPL 612	Master's Thesis 1.	3
CMPL 613	Master's Thesis 2.	3
CMPL 614	Master's Thesis 3.	3
CMPL 615	Master's Thesis 4.	6
CMPL 616	Master's Thesis 5.	12
CMPL 617	Master's Thesis 6.	3

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (6 credits)

The remaining 6 credits (or fewer if more credits are earned for the Master's Thesis) are chosen from among Faculty offerings at the 500 and 600 level.

Additional Thesis Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of thesis courses by completing one or both of:

Expand allContract all

Course	Title	Credits
CMPL 618	Master's Thesis 7.	2
CMPL 619	Master's Thesis 8.	1

Law (Thesis): Air and Space Law (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

The 45-credit LL.M. program, thesis option, in Air and Space Law is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (24 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses, and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

Expand allContract all

Course	Title	Credits
ASPL 690	Master's Thesis 1.	3
ASPL 691	Master's Thesis 2.	3
ASPL 692	Master's Thesis 3.	6
ASPL 693	Master's Thesis 4.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
ASPL 633	Public International Air Law.	3
ASPL 636	Private International Air Law.	3
ASPL 637	Space Law: General Principles.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (9 credits)

6 credits at the 500 level or higher, chosen from among Faculty offerings (including ASPL offerings).

3 credits from the following:

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3

Law (Thesis): Bioethics (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

The 45-credit LL.M. program, thesis option, in Bioethics is a research-intensive, interdisciplinary, graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

Students following the Bioethics option come from the Faculties of Law, Medicine, Religious Studies, or the Department of Philosophy. Entering students pursuing an LL.M., Bioethics are bound by the requirements of the Faculty of Law's LL.M. program (thesis option). For further information regarding this program, please refer to the Bioethics section. See <https://www.mcgill.ca/biomedicaleticsunit/>.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (24 credits)

The Master's Thesis programs consist of a coursework component and a thesis of approximately 100 pages. As part of the thesis requirement, a candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

Expand allContract all

Course	Title	Credits
BIOE 690	M.Sc. Thesis Literature Survey.	3
BIOE 691	M.Sc. Thesis Research Proposal.	3
BIOE 692	M.Sc. Thesis Research Progress Report.	6
BIOE 693	M.Sc. Thesis.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIOE 680	Bioethical Theory.	3
BIOE 681	Bioethics Practicum.	3
CMPL 641	Theoretical Approaches to Law.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (9 credits)

6 credits at the 500 level or above of Faculty of Law courses or Bioethics courses.

3 credits from the following:

Expand allContract all

Course	Title	Credits
CMPL 642	Law and Health Care.	3
PHIL 643	Seminar: Medical Ethics.	3
RELG 571	Ethics, Medicine and Religion.	3

Law (Thesis): Comparative Law (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

** Availability of this program is subject to relevant courses being offered in a given year. **

The 45-credit LL.M. program, thesis option, in Comparative Law is a research-intensive graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. Graduate-level courses on theoretical and methodological approaches to legal writing complement the research work and thesis completion process, and courses in specific areas of knowledge related to the candidate's research interests complete the program's credit requirements.

LL.M. candidates may be associated with the Centre for Human Rights and Legal Pluralism, the Quebec Research Centre of Private and Comparative Law, the Centre for Intellectual Property Policy, or one of the specialized Research Chairs at the Faculty of Law. For more information, see our website: <https://mcgill.ca/law/grad-studies/masters-programs>.

Candidates must remain in residence for three terms. The third term, usually devoted to thesis research, may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (30 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

Expand allContract all

Course	Title	Credits
CMPL 612	Master's Thesis 1.	3
CMPL 613	Master's Thesis 2.	3
CMPL 614	Master's Thesis 3.	3
CMPL 615	Master's Thesis 4.	6
CMPL 616	Master's Thesis 5.	12
CMPL 617	Master's Thesis 6.	3

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CMPL 600	Legal Traditions.	3
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 641	Theoretical Approaches to Law.	3
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (3 credits)

The remaining 3 credits (or fewer if more credits are earned for the Master's Thesis) are chosen from among Faculty offerings at the 500 and 600 levels.

Additional Thesis Courses

With the approval of the Associate Dean (Graduate Studies) and Graduate and Postdoctoral Studies (GPS), students may take up to an additional 3 credits of thesis courses by completing one or both of:

Expand allContract all

Course	Title	Credits
CMPL 618	Master's Thesis 7.	2
CMPL 619	Master's Thesis 8.	1

Law (Thesis): Environment (LL.M.) (45 credits)

Offered by: Law (Faculty of Law)

Degree: Master of Laws

Program credit weight: 45

Program Description

This program is currently not offered.

The 45-credit LL.M. program, thesis option, in Environment is offered in collaboration with the Bieler School of Environment. This is a research-intensive, interdisciplinary, graduate program focused on developing research interests into a thesis project under the supervision of a faculty member. The program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Candidates must remain in residence for three terms for which full-time fees will be charged. The third term, usually devoted to thesis research,

may be taken the Summer of the first year. If the thesis is not completed in this time, students must register for additional sessions as needed. All degree requirements must be completed within a maximum of three years of the date of first registration.

Thesis Courses (27 credits)

As part of the course Master's Thesis 1, a thesis candidate must provide a protocol to his or her supervisor setting out details as to the thesis topic, the deadlines for the completion of the various thesis courses and the schedule of meetings with the thesis supervisor. Modifications to the protocol must be made in writing and submitted to the Associate Dean (Graduate Studies).

Expand allContract all

Course	Title	Credits
CMPL 612	Master's Thesis 1.	3
CMPL 613	Master's Thesis 2.	3
CMPL 614	Master's Thesis 3.	3
CMPL 615	Master's Thesis 4.	6
CMPL 616	Master's Thesis 5.	12

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMPL 610	Legal Research Methodology 1.	1.5
CMPL 611	Legal Research Methodology 2.	1.5
CMPL 615	Master's Thesis 4.	6
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Complementary Courses (9 credits)

3-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

Or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

0-3 credits at the 500 level or higher approved by the Advisory Committee.

Law: Comparative Law (D.C.L.)

Offered by: Law (Faculty of Law)

Degree: Doctor of Civil Law

Program Description

The Doctor of Civil Law (D.C.L.) program allows the development of substantive and original contributions to legal research and knowledge under the supervision of a faculty member.

The degree will be awarded, at the earliest, after the completion of 3 years of residence in the Faculty. The core of the D.C.L. program is a substantial thesis of up to 400 pages that makes a significant contribution to legal scholarship, evidencing in concept and execution the original work of the candidate. The thesis must be submitted within 4 years of completion of the residency requirement. Every candidate must successfully pass a comprehensive examination, after one year which may occur in the first year of the program, but no later than the end of the second year of the program.

Comprehensive - Required

Every candidate must successfully pass a comprehensive examination, usually after one year in the program.

Expand allContract all

Course	Title	Credits
LAWG 701	Comprehensive Exam - Law.	0

Required Courses (5 Credits)

Expand allContract all

Course	Title	Credits
CMPL 641	Theoretical Approaches to Law.	3
LAWG 702	Legal Research Methodology for DCL.	2
LAWG 703	Literature Review, Analysis and Proposal.	0
LAWG 704	DCL Research Seminar 1.	0
LAWG 705	DCL Research Seminar 2.	0

Complementary Course (0-3 Credits)

Some students are encouraged to take the following:

Expand allContract all

Course	Title	Credits
LAWG 601	Communication 1.	1.5
LAWG 602	Communication 2.	1.5

Management (Non-Thesis) (M.B.A.) (54 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 54

Program Description

The MBA; Non-Thesis focuses on both hard and soft key management disciplines and skills in its required courses. Integration of the material in the required courses is accomplished with integration sessions midway through the first semester and at its end. The program is structured in such a way so as to allow for completion of the program in 16-20 months. There is maximum flexibility in the selection of electives taken, ranging from a customized set of electives reflecting the student's own interests, to completing a specialization, i.e., taking a set of at least five electives chosen from lists of specializations (e.g. finance, strategy) compiled by the Program office based on input from Faculty Areas. Students can choose between doing an Internship, completing a Practicum or applying to do an exchange semester at a foreign university.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
BUSA 650	Internship. ¹	6
BUSA 651	Practicum.	6
BUSA 695	Real-Time Decisions.	1.5
MGCR 613	Managerial Economics.	1.5
MGCR 614	Management Statistics.	1.5
MGCR 617	Operations Management.	1.5
MGCR 618	Leadership and Professional Skills.	1.5
MGCR 620	Information Systems.	1.5
MGCR 622	Organizational Strategy.	1.5
MGCR 638	Marketing Management.	1.5
MGCR 639	Managing Organizational Behaviour.	1.5
MGCR 640	Accounting and Financial Reporting.	1.5
MGCR 642	Financial Reporting.	1.5
MGCR 660	International Study Trip.	4.5

¹ Choose EITHER BUSA 650 Internship. or BUSA 651 Practicum..

Students who participate in an International Exchange (12 credits of elective courses) are exempt from BUSA 650 Internship./BUSA 651 Practicum.; 6 additional credits of elective courses are required to complete the 54-credit requirement.

Elective Courses (27 credits)

27 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program advisor in the Faculty.

Management (Non-Thesis): General Management (M.B.A.) (48 credits)

Offered by: Management (Desautels Faculty of Management)
Degree: Master of Business Admin
Program credit weight: 48

Program Description

The M.B.A.; Non-Thesis - General Management program focuses on hard and soft management disciplines and skills. There is maximum flexibility in the program based on input from Faculty areas. This streamlined 12-month program does not allow a student to do an internship.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
BUSA 695	Real-Time Decisions.	1.5
MGCR 613	Managerial Economics.	1.5
MGCR 614	Management Statistics.	1.5
MGCR 617	Operations Management.	1.5
MGCR 618	Leadership and Professional Skills.	1.5
MGCR 620	Information Systems.	1.5
MGCR 622	Organizational Strategy.	1.5
MGCR 638	Marketing Management.	1.5
MGCR 639	Managing Organizational Behaviour.	1.5
MGCR 640	Accounting and Financial Reporting.	1.5
MGCR 642	Financial Reporting.	1.5
MGCR 660	International Study Trip.	4.5

Elective Courses (27 credits)

27 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty.

Management (Non-Thesis): General Management & Law (Joint M.B.A. & B.C.L./J.D.) (132 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 132

Program Description

A joint M.B.A.; Non-Thesis - General Management and B.C.L./J.D. program is offered by the Desautels Faculty of Management and the Faculty of Law. This joint program provides students the opportunity to pursue legal and administrative aspects of business. Successful candidates graduate with M.B.A., B.C.L., and J.D. degrees, a trio that prepares them for careers in private and public enterprise, as well as government service.

Students complete 39 credits for the M.B.A. and 93 credits for the integrated B.C.L./J.D., for a total of 132 credits.

Required Courses - Management (24 credits)

Expand allContract all

Course	Title	Credits	PRAC 200	Advocacy.	1
BUSA 695	Real-Time Decisions.	1.5	PROC 124	Judicial Institutions and Civil Procedure.	4
MGCR 613	Managerial Economics.	1.5			
MGCR 614	Management Statistics.	1.5			
MGCR 617	Operations Management.	1.5			
MGCR 618	Leadership and Professional Skills.	1.5			
MGCR 620	Information Systems.	1.5			
MGCR 621	International Environment.	1.5			
MGCR 622	Organizational Strategy.	1.5			
MGCR 628	Integrative Course.	1.5			
MGCR 638	Marketing Management.	1.5			
MGCR 639	Managing Organizational Behaviour.	1.5			
MGCR 640	Accounting and Financial Reporting.	1.5			
MGCR 642	Financial Reporting.	1.5			
MGCR 660	International Study Trip.	4.5			

Elective Courses (15 credits)

15 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty. Students will have to attend the M.B.A. Base Camp (Accounting and Business Math) prior to commencing the M.B.A.

Required Courses - Law (47 credits)

First Year – 33 credits

Expand allContract all

Course	Title	Credits
LAWG 100D1	Contractual Obligations.	3
LAWG 100D2	Contractual Obligations.	3
LAWG 101D1	Extra-Contractual Obligations/Torts.	3
LAWG 101D2	Extra-Contractual Obligations/Torts.	3
LAWG 102D1	Criminal Justice.	3
LAWG 102D2	Criminal Justice.	3
LAWG 103	Indigenous Legal Traditions.	3
LAWG 110D1	Integration Workshop.	1.5
LAWG 110D2	Integration Workshop.	1.5
PUB2 101D1	Constitutional Law.	3
PUB2 101D2	Constitutional Law.	3
PUB3 116	Foundations.	3

Second Year – 14 credits

Expand allContract all

Course	Title	Credits
LAWG 210	Legal Ethics and Professionalism.	3
LAWG 220D1	Property.	3
LAWG 220D2	Property.	3

Complementary Courses – Law (12 credits)

Civil Law Immersion Courses (3 credits)

Expand allContract all

Course	Title	Credits
BUS2 561	Insurance.	3
LAWG 506	Advanced Civil Law Property.	3
PROC 200	Advanced Civil Law Obligations.	3
PRV1 549	Contracts nommés/Nominate Contracts.	3
PRV2 270	Law of Persons.	3
PRV4 548	Administration Property of Another and Trusts.	3

Common Law Immersion Courses (3 credits)

Expand allContract all

Course	Title	Credits
PRV3 200	Advanced Common Law Obligations.	3
PRV3 534	Remedies.	3
PRV4 500	Restitution.	3
PRV4 549	Equity and Trusts.	3
PRV5 582	Advanced Torts.	3

Social Diversity, Human Rights and Indigenous Law Courses (3 credits)

Expand allContract all

Course	Title	Credits
CMPL 500	Indigenous Peoples and the State.	3
CMPL 504	Feminist Legal Theory.	3
CMPL 511	Social Diversity and Law.	3
CMPL 516	International Development Law.	3
CMPL 565	International Humanitarian Law.	3
CMPL 571	International Law of Human Rights.	3
CMPL 573	Civil Liberties.	3
CMPL 575	Discrimination and the Law.	3
IDFC 500	Indigenous Field Studies.	3
LAWG 503	Inter-American Human Rights.	3
LAWG 505	Critical Engagements with Human Rights.	3
LAWG 507	Critical Race Theory Advanced Seminar.	3
LAWG 508D1	Indigenous Constitutionalism.	3
LAWG 508D2	Indigenous Constitutionalism.	3
LAWG 509	Indigenous Law Revitalization.	3
LAWG 562	Regulating Artificial Intelligence.	3
LAWG 580	Women and Constitutions.	3
LAWG 582	Disability Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 582	Law and Poverty.	3

PUB2 105	Public International Law.	3
PUB2 500	Law and Psychiatry.	3
PUB2 502	International Criminal Law.	3
PUB2 551	Immigration and Refugee Law.	3

Principles of Canadian Administrative Law (3 credits)

Expand allContract all

Course	Title	Credits
BUS1 532	Bankruptcy and Insolvency.	3
BUS2 504	Securities Regulation.	3
CMPL 539	International Taxation.	3
CMPL 543	Law and Practice of International Trade.	3
CMPL 574	Government Control of Business.	3
CMPL 575	Discrimination and the Law.	3
CMPL 577	Communications Law.	3
CMPL 580	Environment and the Law.	3
LAWG 523	Tax Practice Seminar.	3
LAWG 561	Privacy Law.	3
LAWG 581	Health Care Delivery and the Law.	3
LAWG 583	Public Health Law and Policy.	3
LEEL 369	Labour Law.	3
LEEL 570	Employment Law.	3
LEEL 582	Law and Poverty.	3
PRV4 545	Land Use Planning.	3
PRV5 483	Consumer Law.	3
PUB2 400	The Administrative Process.	3
PUB2 401	Judicial Review of Administrative Action.	3
PUB2 500	Law and Psychiatry.	3
PUB2 515	Tax Policy.	3
PUB2 551	Immigration and Refugee Law.	3

Elective Courses (34 credits)

Students must take 34 credits of other elective courses, offered within the Faculty or approved as credit equivalencies in order to complete the 93-credit degree.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

1. writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
2. writing a term essay under independent supervision, for credit, within the Faculty of Law;
3. writing an article, note, or comment or equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Japan (Non-Thesis) (M.B.A.) (51 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 51

Program Description

**This program is no longer accepting new students."

Japan Management (Non-Thesis): Finance (M.B.A.) (57 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 57

Program Description

**This program is no longer accepting new students."

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Finance Concentration focuses on how firms raise capital and on the optimal allocation of capital for investments. This concentration prepares students for careers in corporate treasury functions, asset management, and investment banking.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

Expand allContract all

Course	Title	Credits
MGCR 629	Healthcare Leadership.	1
MGCR 650	Business Tools.	2
MGCR 651	Managing Resources.	4
MGCR 652	Value Creation.	4
MGCR 653	Markets and Globalization.	4
MGCR 661	International Study Experience.	6

Required Concentration Courses (6 credits)

Students choosing the Finance concentration must complete these required courses:

Course	Title	Credits
FINE 622	Modern Corporate Finance.	3
FINE 646	Investments and Portfolio Management.	3

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

Course	Title	Credits
ACCT 618	Financial Reporting: Structure and Analysis.	3
FINE 620	Corporate Mergers.	3
FINE 639	Derivatives and Risk Management.	3
FINE 648	Applied Corporate Finance.	3
FINE 690	Advanced Topics in Finance 1.	3
FINE 693	Global Capital Markets.	3

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

Course	Title	Credits
BUSA 650	Internship.	6
BUSA 651	Practicum.	6

Japan Management (Non-Thesis): General Management (M.B.A.) (48 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 48

Program Description

This program is no longer accepting new students.

The M.B.A. (Japan); Non-Thesis - General Management focuses on both hard and soft key management disciplines and skills with its integrative approach. The academic content of the M.B.A. (Japan) program is the same as the Montreal M.B.A.; however, the delivery of the content is modified to allow students to complete a Master of Business Administration degree on weekends in Japan.

Required Core Courses (24 credits)

Expand allContract all

Course	Title	Credits
BUSA 695	Real-Time Decisions.	1.5
MGCR 613	Managerial Economics.	1.5
MGCR 614	Management Statistics.	1.5
MGCR 617	Operations Management.	1.5
MGCR 618	Leadership and Professional Skills.	1.5
MGCR 620	Information Systems.	1.5
MGCR 621	International Environment.	1.5
MGCR 622	Organizational Strategy.	1.5
MGCR 628	Integrative Course.	1.5
MGCR 638	Marketing Management.	1.5
MGCR 639	Managing Organizational Behaviour.	1.5
MGCR 640	Accounting and Financial Reporting.	1.5
MGCR 642	Financial Reporting.	1.5
MGCR 660	International Study Trip.	4.5

Elective Courses (24 credits)

24 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty.

Japan Management (Non-Thesis): Global Strategy and Leadership (M.B.A.) (57 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 57

Program Description

This program is no longer accepting new students.

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Global Strategy and Leadership Concentration prepares students for the challenges posed by a globalizing marketplace. The approach is cross-disciplinary and includes courses in strategy, organizational behavior, and international business. Students will consider questions such as: What issues will the leaders of tomorrow face and how can they best tackle them? How to take a firm international? How to manage a multi-cultural workforce? How to launch a new venture? How to promote sustainable development? Students will develop skills

valued by employers in consulting, business development, project management, and related fields.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MGCR 629	Healthcare Leadership.	1
MGCR 650	Business Tools.	2
MGCR 651	Managing Resources.	4
MGCR 652	Value Creation.	4
MGCR 653	Markets and Globalization.	4
MGCR 661	International Study Experience.	6

Required Concentration Courses (6 credits)

Students choosing the Global Strategy and Leadership concentration must complete these required courses:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MGPO 683	International Business Policy.	3
ORGB 685	Cross Cultural Management.	3

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

[Expand all](#) [Contract all](#)

Course	Title	Credits
BUSA 660	CEO Insights.	3
BUSA 690	Advanced Topics in Management 1.	3
MGPO 615	Consulting for Change.	3
MGPO 630	Managing Strategy and Innovation.	3
MGPO 640	Strategies for Sustainable Development.	3
MGPO 645	Strategy in Context.	3
MGPO 651	Strategic Management: Developing Countries.	3
MGPO 669	Managing Globalization.	3
ORGB 633	Managerial Negotiations.	3
ORGB 640	The Art of Leadership.	3

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

[Expand all](#) [Contract all](#)

Course	Title	Credits
BUSA 650	Internship.	6
BUSA 651	Practicum.	6

Japan Management (Non-Thesis): Marketing (M.B.A.) (57 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 57

Program Description

This program is no longer accepting new students.

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

The Marketing Concentration focuses on the development of skills in understanding customers and markets, creating value through products and services, evaluating the effectiveness of marketing programs, and managing customer relationships.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MGCR 629	Healthcare Leadership.	1
MGCR 650	Business Tools.	2
MGCR 651	Managing Resources.	4
MGCR 652	Value Creation.	4
MGCR 653	Markets and Globalization.	4
MGCR 661	International Study Experience.	6

Required Concentration Courses (6 credits)

Students choosing the Marketing concentration must complete these required courses:

[Expand all](#) [Contract all](#)

Course	Title	Credits
MRKT 657	Customer Insights.	3
MRKT 658	Marketing Intelligence.	3

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

Expand allContract all

Course	Title	Credits
MRKT 645	Winning at Brands.	3
MRKT 652	Competitive Marketing Strategy.	3
MRKT 655	Marketing Planning.	3
MRKT 690	Advanced Topics in Marketing 1.	3

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 650	Internship.	6
BUSA 651	Practicum.	6

Japan Management (Non-Thesis): Technology and Innovation Management (M.B.A.) (57 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 57

Program Description

This program is no longer accepting new students.

The McGill MBA Japan program of the Desautels Faculty of Management of McGill University is the leading MBA program in Japan, and one of the leading weekend programs in Asia. Designed for working people with several years of experience, the McGill MBA Japan program allows you to complete a Master of Business Administration program on weekends, without leaving employment.

Based on McGill's world-leading Integrative MBA Curriculum, the MBA Japan program allows you to complete a full MBA by studying two weekends per month in as little as 20 months. Taught by world-leading professors from McGill's home campus, the MBA Japan attracts highly qualified students from Japan and around the globe.

As technology reshapes the globe and innovations transform markets and organizations, the 21st century manager will be deeply immersed in technology and innovation management. As information technology is now present in more products and processes, managers need to understand the processes surrounding its strategic use and development. As manufacturing and service operations now stretch the globe, issues of logistics and supply chain integration become more important. As innovative products increasingly create and transform markets, managers must master the technology development process. This concentration provides tools, frameworks, and integration of all aspects of organizational operations, supply chain, IT processes and

innovation management. Students following this concentration will be uniquely qualified to take jobs in new product development, IT strategy, operations and supply chain management, and technology consulting. A unique aspect of the concentration is the capstone project course where students work on solving a real-life technology innovation problem.

Required Core Courses (21 credits)

All M.B.A. students must complete the following core courses:

Expand allContract all

Course	Title	Credits
MGCR 629	Healthcare Leadership.	1
MGCR 650	Business Tools.	2
MGCR 651	Managing Resources.	4
MGCR 652	Value Creation.	4
MGCR 653	Markets and Globalization.	4
MGCR 661	International Study Experience.	6

Required Concentration Courses (6 credits)

Students choosing the Technology and Innovation Management concentration must complete these required courses:

Expand allContract all

Course	Title	Credits
INSY 606	Technology Management.	3
MGSC 616	Technology in Action.	3

Complementary Courses (30 credits)

9 credits selected from the following courses toward the concentration:

Expand allContract all

Course	Title	Credits
INSY 608	Winning with IT.	3
INSY 609	Technology Project Management.	3
MGSC 602	Strategic Management of Operations.	3
MGSC 603	Logistics Management.	3
MGSC 605	Total Quality Management.	3
MGSC 615	Procurement and Distribution.	3
MGSC 631	Analysis: Production Operations.	3
ORGB 625	Managing Organizational Change.	3

The remaining 15 credits of courses are chosen from 500- and 600-level courses offered by the Faculty.

6 credits from the following:

Expand allContract all

Course	Title	Credits	
BUSA 650	Internship.	6	Consulting Practicum. or BUSA 693N1 Analytics and Solution Consulting Practicum. and BUSA 693N2 Analytics and Solution Consulting Practicum..
BUSA 651	Practicum.	6	

Joint Executive M.B.A. (Non-Thesis) (E.M.B.A.) (45 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Business Admin

Program credit weight: 45

Required Courses (45 credits)

McGill University courses (33 credits)

Expand allContract all

Course	Title	Credits
BUSA 642	Reflective Dimension Manager Role.	4
BUSA 643	Collaborative Dimension Manager.	4
BUSA 644	Analytic Dimension of Manager Role.	4
BUSA 645	Worldly Dimension of Manager Role.	4
BUSA 685	Managing Change.	5
BUSA 689	Integrative Project.	12

HEC Montréal courses (12 credits)

Expand allContract all

Course	Title	Credits
MHEC 600	Création de valeur.	4
MHEC 601	Excellence opérationnelle.	4
MHEC 602	Outils et pratiques de gestion.	4

Analytics (Non-Thesis) (M.M.) (45 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Management

Program credit weight: 45

Program Description

The core module is designed to teach the fundamentals of data and decision analytics, team management, and leadership. The complementary course module is designed to expose students to a variety of management analytics application topics including marketing, retailing, supply chain, healthcare, security, pricing, talent and network analytics. Finally, the experiential module, which consists of a capstone management analytics project plus a community project or internship, is designed to provide students with the experience of hands-on application of the concepts taught in real-world settings and the opportunity to interact with practitioners in leading analytics organizations.

Required Courses (27 credits)

Note: Students take either BUSA 693D1 Analytics and Solution Consulting Practicum. and BUSA 693D2 Analytics and Solution

Expand allContract all

Course	Title	Credits
BUSA 693D1	Analytics and Solution Consulting Practicum.	3
BUSA 693D2	Analytics and Solution Consulting Practicum.	3
BUSA 693N1	Analytics and Solution Consulting Practicum.	3
BUSA 693N2	Analytics and Solution Consulting Practicum.	3
INSY 660	Coding Foundations for Analytics.	3
INSY 661	Database and Distributed Systems for Analytics.	3
INSY 662	Data Mining and Visualization.	3
MGSC 660	Mathematical and Statistical Foundations for Analytics.	3
MGSC 661	Multivariate Statistical Analysis.	3
MGSC 662	Decision Analytics.	3
ORGB 660	Managing Data Analytics Teams.	1.5
ORGB 661	Ethical Leadership and Leading Change.	1.5

Complementary Courses (18 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
BUSA 600	Analytics Internship.	3
BUSA 649	Community Analytics Project.	3

15 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 626	Data Analytics in Accounting.	1.5
ACCT 696	Advanced Topics in Accounting Analytics.	1.5
BUSA 611	Independent Studies in Analytics 1.	1.5
BUSA 613	Independent Studies in Analytics 2.	3
BUSA 684	Analytics Study Trip.	3
FINE 675	Financial Valuation Analytics for Startups.	1.5
FINE 695	Advanced Topics in Finance Analytics 1.	1.5
FINE 696	Advanced Topics in Finance Analytics 2.	1.5
INSY 669	Text Analytics.	1.5
INSY 670	Social Media Analytics.	1.5
INSY 671	Analytics and Open Innovation.	1.5
INSY 672	Healthcare Analytics.	1.5
INSY 673	Security Analytics.	1.5
INSY 674	Enterprise Data Science: Concepts and Algorithms	1.5
INSY 684	Enterprise Machine Learning in Production	1.5
INSY 695	Advanced Topics in Information Systems 1	1.5

MGPO 695	Advanced Topics in Strategy Analytics.	1.5	FINE 681	International Capital Markets.	3
MGSC 670	Revenue Management.	1.5	FINE 682	Derivatives.	3
MGSC 672	Operations and Supply Chain Analytics.	1.5			
MGSC 673	Introduction to Artificial Intelligence and Deep Learning.	1.5			
MGSC 674	Optimization for Data Science.	1.5			
MGSC 684	Data Driven Decisions and Modelling for Operations	1.5			
MGSC 695	Advanced Topics in Management Science 1	1.5			
MRKT 671	Advanced Marketing Analytics.	1.5			
MRKT 672	Internet Marketing Analytics.	1.5			
MRKT 673	Pricing Analytics.	1.5			
MRKT 674	Retail Analytics.	1.5			
MRKT 696	Advanced Topics in Marketing Analytics.	1.5			
ORGB 671	Talent Analytics.	1.5			
ORGB 672	Organizational Network Analysis.	1.5			
ORGB 695	Advanced Topics in Organizational Behaviour.	1.5			

Complementary Courses (24 credits)

12 credits from:

Expand allContract all

Course	Title	Credits
ACCT 605	Financial Statements 2.	3
FINE 677	Trading and Markets	3
FINE 683	Advanced Corporate Finance.	3
FINE 684	Fixed Income Analysis.	3
FINE 685	Market Risk Management.	3
FINE 686	Global Corporate Finance.	3
FINE 687	Global Investments.	3
FINE 688	Mergers and Acquisitions.	3

or any other relevant 600-level courses offered by Desautels Faculty of Management with permission of the Program Adviser.

12 credits from:

Expand allContract all

Course	Title	Credits
FINE 670	Fundamentals of Financial Research.	3
FINE 671	Applied Finance Project. ¹	9
FINE 671D1	Applied Finance Project. ¹	4.5
FINE 671D2	Applied Finance Project. ¹	4.5
FINE 671N1	Applied Finance Project. ¹	4.5
FINE 671N2	Applied Finance Project. ¹	4.5

¹ Note: Choose either FINE 671 Applied Finance Project. or FINE 671D1 Applied Finance Project./FINE 671D2 Applied Finance Project. or FINE 671N1 Applied Finance Project./FINE 671N2 Applied Finance Project.

Or

Expand allContract all

Course	Title	Credits
FINE 689	Integrative Finance Project.	12
FINE 689N1	Integrative Finance Project.	6
FINE 689N2	Integrative Finance Project.	6

Manufacturing Management (Non-Thesis) (M.M.) (56 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Management

Program credit weight: 56

Required Courses (21 credits)

Course	Title	Credits
ACCT 604	Financial Statements 1.	3
FINE 674	Fintech.	3
FINE 678	Financial Economics.	3
FINE 679	Corporate Finance Theory.	3
FINE 680	Investments.	3

Program Description

M.M. in Manufacturing Management, Non-Thesis program provides a professional, hands-on approach that addresses all major issues germane to the optimization of operations. The program moved beyond a manufacturing focus to all facets of supply chains, logistics and manufacturing management. A key feature of the program is industry participation and interaction. To ensure a profound comprehension of the issues and challenges facing business today, courses have corporate sponsors and partners that provide case studies, plant tours, seminars, industrial projects and internships. The major emphasis of these activities is on improving productivity and operational effectiveness. The program aims at training the students with diversified backgrounds who wish to pursue a career in the top management of global operations and supply chain.

A version of M.M. in Manufacturing Management, Non-Thesis program is collaboratively offered with Zhejiang University Hangzhou in China.

Required Courses (20 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
MGCR 611	Financial Accounting.	2
MGCR 612	Organizational Behaviour.	2
MGCR 616	Marketing.	2
MGCR 641	Elements of Modern Finance 1.	2
MGSC 609	Operations Industrial Seminar.	1
MGSC 610	Operations Case Studies.	2
MGSC 611	Operations Industrial Stage.	9

Complementary Courses (36 credits)

15-18 credits of General Business and Management courses from the following:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MGSC 602	Strategic Management of Operations.	3
MGSC 604	Managerial Communication in Supply Chain Management.	2
MGSC 607	Corporate Social Responsibility in Supply Chain Management.	1
MGSC 608	Data Decisions and Models.	3
MGSC 619	Independent Study.	3
ORGB 625	Managing Organizational Change.	3
ORGB 632	Managing Teams in Organizations.	3
ORGB 633	Managerial Negotiations.	3
ORGB 640	The Art of Leadership.	3
ORGB 685	Cross Cultural Management.	3

18-21 credits of Manufacturing and Supply Chain courses from the following:

[Expand all](#)[Contract all](#)

Course	Title	Credits
INSY 610	Manufacturing Information Systems .	3
MGSC 603	Logistics Management.	3
MGSC 605	Total Quality Management.	3
MGSC 614	Computer Integrated Manufacturing.	3
MGSC 615	Procurement and Distribution.	3
MGSC 617	Product Design.	3
MGSC 618	Data Analytics Foundations in Supply Chain Management.	3
MGSC 631	Analysis: Production Operations.	3
MGSC 690	Selected Topics in Management Science 1 .	3
MGSC 691	Selected Topics in Management Science 2 .	3

Or other courses at the 600 level [up to 6 credits] offered by Desautels Faculty of Management, chosen in consultation with, and approval by, the Program Director.

IMHL (Non-Thesis) (M.M.) (45 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Management

Program credit weight: 45

Program Description

The M.M. in International Master's for Health Leadership; Non-Thesis program is designed for clinicians and managers in the context of health care that focuses on management skills for emerging health care leaders. This is a 15-month program made up of five 12-day modules, followed by a Master's paper. The program will be delivered online.

Required Courses (45 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
BUSA 663	Reflective Mindset.	6
BUSA 667	Analytic Mindset.	6
BUSA 671	Managerial Experience.	3
BUSA 676	Worldly Mindset.	6
BUSA 677	Collaborative Mindset.	6
BUSA 678	Catalytic Mindset.	6
BUSA 694	Final Master's Paper.	12

IMPM (Non-Thesis) (M.M.) (45 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Master of Management

Program credit weight: 45

Research Project (12 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
BUSA 689	Integrative Project.	12

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
BUSA 666	The Practice of Management.	5
BUSA 668	The Venture.	5
BUSA 670	Managing Organizations.	5
BUSA 672	Managerial Exchange.	3
BUSA 675	Managing Context.	5
BUSA 680	Managing People.	5
BUSA 685	Managing Change.	5

Retailing (Non-Thesis) (M.M.) (45 credits)

Offered by: Management (Desautels Faculty of Management)**Degree:** Master of Management**Program credit weight:** 45

Program Description

The Master of Management in Retailing; Non-Thesis, is focused on the customer journey and explores how retail disruptors can lead to retail innovations that can significantly improve operational efficiencies, competitiveness and impact customer satisfaction to provide a foundation for a better society. International in scope, the program will focus on how retailers must adapt to the rapidly changing and increasingly complex global business environment to thrive. It aims to integrate diverse disciplines and experiential learning opportunities, including an optional internship, research opportunities with the state-of-the-art Retail Lab in addition to an international trip and Global Retail Challenge.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
RETL 601	Foundations of Retailing .	3
RETL 603	Retail Science and Data Analytics.	3
RETL 610	Environmental Social Governance, Entrepreneurship & Retail	3
RETL 611	360-Degree Customer Insight .	3
RETL 613	Digital Retailing Models.	3
RETL 615	Managing Retail Operations .	3
RETL 617	Managing for Sustainability.	3
RETL 625	Experiential Retail.	3
RETL 639	Retail Business Insights	3

Complementary Courses (18 credits)

12-18 credits from:

Course	Title	Credits
RETL 621	Retail Internship.	6
RETL 631	Digital Media Marketing.	3
RETL 633	Data-Driven Retail Decisions.	3
RETL 635	Creativity and Experiential Economy .	3
RETL 637	Innovative Retail Technology .	3
RETL 641	Fashion Retail Management .	3
RETL 643	Fintech and Financial Services .	3
RETL 645	Food Retail.	3
RETL 647	Design Thinking and Innovation	3
RETL 651	Retail Practicum.	6
RETL 652	Independent Study in Retail.	3
RETL 661	Advanced Topics in Retail Management 1 .	3
RETL 662	Advanced Topics in Retail Management 2 .	3
RETL 663	Advanced Topics in Retail Management 3 .	3
RETL 664	Advanced Topics in Retail Management 4	3

0-6 credits from:

up to 6 credits of course from 600-level courses offered by Desautels Faculty of Management. Course choice must be approved by the Program Administrator/ Program Adviser of the Master of Management in Retailing Non-Thesis program office.

Management (Ph.D.)

Offered by: Management (Desautels Faculty of Management)**Degree:** Doctor of Philosophy

Program Description

The Ph.D. in Management focuses on distinctive research and competent educator skills across various aspects of business. Specialization in one of the following seven disciplines: accounting, finance, information systems, marketing, operations management, including retail management, organizational behaviour, as well as strategy and organization. The program consists of two years of coursework followed by the dissertation research phase.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits			
EDPH 689	Teaching and Learning in Higher Education.	3	MGMT 707	Research Methodology.	3
MGMT 701	Comprehensive Examination.	0	MGMT 720	Research Paper.	3
MGMT 707	Research Methodology.	3			
MGMT 720	Research Paper.	3			

Complementary Courses (18 credits)

12 credits of specialization courses

6 credits in the support field

Management: Environment (Ph.D.)

Offered by: Management (Desautels Faculty of Management)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The new Environment Option provides students with an appreciation of the role of science in informing decision-making in the environment sector, and the influence that political, socioeconomic and ethical judgments have. The option also provides a forum whereby graduate students bring their disciplinary perspectives together and enrich each other's learning through structured courses, formal seminars, and informal discussions and networking. Students who have been admitted through their home department or faculty may apply for admission to the option. Option requirements are consistent across academic units. The option is coordinated by the MSE, in partnership with participating academic units.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EDPH 689	Teaching and Learning in Higher Education.	3
ENVR 610	Foundations of Environmental Policy.	3
ENVR 650	Environmental Seminar 1.	1
ENVR 651	Environmental Seminar 2.	1
ENVR 652	Environmental Seminar 3.	1
MGMT 701	Comprehensive Examination.	0

Complementary Courses (15 credits)

12 credits of courses/seminars at the 500-level or higher in the student's management specialization area in consultation with student's advisory committee.

3 credits chosen from the following list:

Expand allContract all

Course	Title	Credits
ENVR 620	Environment and Health of Species.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

Or another course at the 500-level or higher recommended by the advisory committee and approved by the Environment Option Committee.

Healthcare Management (Gr. Cert.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Program credit weight: 15

Program Description

The Graduate Certificate in Healthcare Management focuses on a range of managerial skills to positively impact the quality, efficiency and fiscal responsibility of health care delivery. This includes: leading transformation, financial management and analysis, leading and managing people, conflict resolutions and negotiations, process analysis in health care settings, managing and improving quality in health care systems, and health management. The program will be offered in collaboration with the Faculty of Medicine.

Please click here for information on additional requirements for students pursuing this online program: [https://www.mcgill.ca/study/university_regulations_and_resources/undergr...\(distance\)_programs](https://www.mcgill.ca/study/university_regulations_and_resources/undergr...(distance)_programs)

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
ACCT 645D1	Financial Management in Healthcare.	1
ACCT 645D2	Financial Management in Healthcare.	1
BUSA 647D1	Healthcare Management Practicum.	2
BUSA 647D2	Healthcare Management Practicum.	2
MGCR 629	Healthcare Leadership.	1
MGSC 641D1	Operations Management in Health Services.	1
MGSC 641D2	Operations Management in Health Services .	1
MGSC 642D1	Quality Management in Healthcare.	1
MGSC 642D2	Quality Management in Healthcare.	1
ORGB 643D1	Leading and Managing People in Healthcare.	1

ORGB 643D2	Leading and Managing People in Healthcare.
ORGB 644D1	Managerial Negotiations in Healthcare.
ORGB 644D2	Managerial Negotiations in Healthcare.

Post MBA (Gr. Cert.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Graduate Certificate Post MBA

Program credit weight: 15

Program Description

This program is no longer accepting new students.

Required Courses

15 credits of M.B.A. courses.

Post MBA Japan (Gr. Cert.) (15 credits)

Offered by: Management (Desautels Faculty of Management)

Degree: Graduate Certificate Post MBA

Program credit weight: 15

Program Description

This program is no longer accepting new students.

Required Courses

15 credits of M.B.A./Japan courses.

Professional Accounting (Gr. Cert.) (30 credits)

Offered by: Management (Desautels Faculty of Management)

Program credit weight: 30

Program Description

The Graduate Certificate in Professional Accounting focuses on the latest concepts and practice related to issues of public accounting (assurance), performance measurement, taxation, and financial business analysis. This program is a recognized professional education program (PEP) of l'Ordre des Comptables Professionnels Agréés du Québec (OCPAQ). Successful completion of this program allows students to write the national CPA Common Final Exams.

Prerequisite Courses for Canadian B.Com. Students (33 credits)

Expand allContract all

Course	Title	Credits
ACCT 351	Intermediate Financial Accounting 1.	3
ACCT 352	Intermediate Financial Accounting 2.	3
ACCT 361	Management Accounting.	3

1	ACCT 362	Cost Accounting.	3
1	ACCT 385	Principles of Taxation.	3
1	ACCT 453	Advanced Financial Accounting.	3
	ACCT 463	Management Control.	3
	ACCT 475	Principles of Auditing.	3
	ACCT 486	Business Taxation 2.	3
	BUSA 364	Business Law 1.	3
	FINE 342	Corporate Finance.	3

Prerequisite Courses for Graduate Certificate in Accounting Students (42 credits)

Expand allContract all

Course	Title	Credits
CCAU 611	Auditing 1.	3
CCFC 611	Financial Accounting 1.	3
CCFC 612	Financial Accounting 2.	3
CCFC 613	Financial Accounting 3.	3
CCLW 611	Business Law Concepts.	3
CCMA 611	Managerial Accounting 1.	3
CCMA 622	Managerial Accounting 2.	3
CCMA 523	Managerial Accounting 3.	3
CCTX 611	Taxation 1.	3
CCTX 632	Taxation 2.	3
CFIN 512	Corporate Finance.	3
CFIN 522	Applied Topics: Corporate Finance.	3
CMIS 641	Information Systems for Managers.	3
CPL2 652	Strategic Management.	3

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
ACCT 653	Issues in Professional Accounting 1.	3
ACCT 654	Issues in Professional Accounting 2.	3
ACCT 663	Strategic Aspects of Accounting 1.	3
ACCT 664	Strategic Aspects of Accounting 2.	3
ACCT 695	Integrative Analysis.	4
ACCT 699	Exam Preparation Seminar.	8

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
ACCT 683	Practice of Taxation.	3
ACCT 687	Assurance Services.	3
ACCT 689	Financial Business Analysis.	3

Medical Radiation Physics (Thesis) (M.Sc.) (45 credits)

Offered by: Medical Physics Unit (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. program in Medical Radiation Physics provides candidates with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background and enables candidates to undergo further training through a clinical residency program or to further advanced graduate studies in medical physics through a Ph.D. degree. Graduates from the program typically find employment in clinical settings, academia, industry, or governmental research and regulatory agencies. The program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP).

Thesis Courses (18 credits)

Expand allContract all

Course	Title	Credits
MDPH 691D1	MSc Thesis Research 2.	9
MDPH 691D2	MSc Thesis Research 2.	9

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
MDPH 601	Radiation Physics.	3
MDPH 602	Radiotherapy Physics.	3
MDPH 603	Laboratory Radiotherapy Physics.	2
MDPH 607	Medical Imaging.	3
MDPH 608	Laboratory - Diagnostic Radiology and Nuclear Medicine.	2
MDPH 609	Radiation Biology.	2
MDPH 610	Instrumentation and Computation in Medical Physics 2.	2
MDPH 613	Health Physics.	2
MDPH 614	Physics of Diagnostic Radiology.	3
MDPH 615	Physics of Nuclear Medicine.	2
MDPH 618	Anatomy and Physiology for Medical Physics. ¹	3
PHIL 643	Seminar: Medical Ethics.	3

Program credit weight: 30

Program Description

The Graduate Diploma in Medical Radiation Physics is intended to provide candidates holding a graduate degree in a related field with the knowledge required to enter into the field of medical physics. The program relies on a strong fundamental science background. The graduate diploma program is accredited by the Commission for Accreditation of Medical Physics Education Programs (CAMPEP) only for students holding a Ph.D. degree.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
MDPH 601	Radiation Physics.	3
MDPH 602	Radiotherapy Physics.	3
MDPH 603	Laboratory Radiotherapy Physics.	2
MDPH 607	Medical Imaging.	3
MDPH 608	Laboratory - Diagnostic Radiology and Nuclear Medicine.	2
MDPH 609	Radiation Biology.	2
MDPH 610	Instrumentation and Computation in Medical Physics 2.	2
MDPH 613	Health Physics.	2
MDPH 614	Physics of Diagnostic Radiology.	3
MDPH 615	Physics of Nuclear Medicine.	2
MDPH 618	Anatomy and Physiology for Medical Physics. ¹	3
PHIL 643	Seminar: Medical Ethics.	3

¹ Or an equivalent course, at the 500-level or higher, as deemed appropriate by the Graduate Program Director.

Experimental Medicine (Thesis) (M.Sc.) (45 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The overall objective of this program is to train students in the in-depth analysis of fundamental, translational and/or clinical research.

Students perform studies at diverse levels, from molecular, cellular, and tissue to whole animal, human, and population in order to elucidate mechanisms behind human diseases, leading to drug discovery. Students are trained to perform research in both academic and industrial settings.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
EXMD 690	Master's Thesis Research 1.	3
EXMD 692	Master's Thesis Research 3.	9

Medical Radiation Physics (Gr. Dip.) (30 credits)

Offered by: Medical Physics Unit (Faculty of Medicine and Health Sciences)

EXMD 693	Master's Thesis Research 4.	12
EXMD 694	Master's Thesis Research 5.	12

Complementary Courses (9 credits)

9 credits at the 500 level or higher.

Course choices should be made in consultation with research supervisor(s). Courses may be taken outside the department at the 500 level or higher in medical and allied sciences .

¹ Note that some seminar, current topics and readings, and conference courses may not count towards your degree. Thus, students must obtain prior approval from the Division's Student Affairs Coordinator for courses at the 500 level or higher from other Allied Health Sciences departments.

Experimental Medicine (Thesis): Bioethics (M.Sc.) (45 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Experimental Medicine; Bioethics focuses on conducting innovative research in relation to a bioethical issue pertinent to health care, and bioethical issues from the current viewpoint of other relevant disciplines such as law, philosophy, and religious studies. The program includes a bioethics practicum; the thesis must focus on bioethics in relation to experimental medicine.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
BIOE 690	M.Sc. Thesis Literature Survey.	3
BIOE 691	M.Sc. Thesis Research Proposal.	3
BIOE 692	M.Sc. Thesis Research Progress Report.	6
BIOE 693	M.Sc. Thesis.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOE 680	Bioethical Theory.	3
BIOE 681	Bioethics Practicum.	3

Complementary Courses (15 credits)

3 credits, one of the following:

Expand allContract all

Course	Title	Credits
CMPL 642	Law and Health Care.	3
PHIL 643	Seminar: Medical Ethics.	3
RELG 571	Ethics, Medicine and Religion.	3

12 credits, four 3-credit BIOE or EXMD graduate courses (500, 600, or 700 level) chosen in consultation with the Supervisor.

Experimental Medicine (Thesis): Digital Health Innovation (M.Sc.) (45 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Experimental Medicine; Digital Health Innovation focuses on the basics of clinical epidemiology, medical artificial intelligence, clinical innovation, and applied data science, including the use and generation of digitized health and social data using specialized software. Fundamentals of current AI applications in medicine, methods to employ big data in clinical tool development, mathematical principals underpinning digital health and big data, and design thinking methodology in clinical innovation. High-volume streams of clinical and health-related data from clinical systems, wearables and social media.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
EXMD 693	Master's Thesis Research 4.	12
EXMD 694	Master's Thesis Research 5.	12

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EXMD 601	Real World Applications of Data Science and Informatics.	3
EXMD 634	Quantitative Research Methods.	3
EXSU 500	Artificial Intelligence in Medicine .	3

Complementary Course (6 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 600	Clinical Epidemiology.	3
EXMD 600	Principles of Clinical Research.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
EXMD 630	Developing Digital Innovations for Health Impact.	3
EXSU 620	Surgical Innovation 1.	3

Elective Courses (6 credits)

6 credits of courses at the 500 level or higher approved by the Director.

Experimental Medicine (Thesis): Environment (M.Sc.) (45 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

** This program is currently not offered. **

The M.Sc. in Experimental Medicine; Environment is a research program offered in collaboration with the Bieler School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
EXMD 690	Master's Thesis Research 1.	3
EXMD 693	Master's Thesis Research 4.	12
EXMD 694	Master's Thesis Research 5.	12

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (15 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

9 credits of courses at the 500-level or higher. Course choices should be made in consultation with research supervisor(s). Courses may be taken outside the department at the 500 level or higher in medical and allied sciences .

¹ Students must get approval of GPD for courses at the 500 level or higher from other Allied Health Sciences.

Experimental Medicine (Ph.D.)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The overall objective of this program is to train students in the in-depth analysis of fundamental, translational and/or clinical research. Students perform studies at diverse levels, from molecular, cellular, and tissue to whole animal, human, and population in order to elucidate mechanisms behind human diseases, leading to drug discovery. Students are trained to become research leaders in both academic and industrial settings.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
EXMD 701D1	Comprehensive Oral Examination.	0
EXMD 701D2	Comprehensive Oral Examination.	0

Complementary Courses (12 or 18 Credits)

12 credits, at the 500 level or higher, are required for students admitted to Ph.D. 2, i.e. students entering the program with a prior Master's degree.

18 credits, at the 500 level or higher, are required for students admitted to Ph.D. 1, i.e. students entering the program with only a B.Sc. or M.D. degree. Students that fast track from the masters level should take a total of 18 credits including previous courses taken at the Masters Level in a related-field.

Course choices should be made in consultation with research supervisor(s). Courses may be taken outside the department at the 500 level or higher in medical and allied sciences .

¹ Note that some seminar, current topics and readings, and conference courses may not count towards your degree. Thus, students must obtain prior approval from the Division's Student Affairs Coordinator for courses at the 500 level or higher from other Allied Health Sciences departments.

Experimental Medicine: Environment (Ph.D.)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

** This program is currently not offered. **

The Ph.D. in Experimental Medicine; Environment is a research program offered in collaboration with the School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3
EXMD 701D1	Comprehensive Oral Examination.	0
EXMD 701D2	Comprehensive Oral Examination.	0

Complementary Courses (18 or 24 credits)

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

12 credits, at the 500 level or higher, are required for students admitted to Ph.D. 2, i.e. students entering the program with a prior Master's degree.

Or

18 credits, at the 500 level or higher, are required for students admitted to Ph.D. 1, i.e. students entering the program with only a B.Sc. or M.D. degree and who have been either admitted directly or fast-tracked to the Ph.D.

Course choices should be made in consultation with research supervisor(s). Courses may be taken outside the department at the 500 level or higher in medical and allied sciences .

¹ Students must get approval from the GPD for courses at the 500 level or higher from other allied health sciences.

Regenerative Medicine (Gr. Cert.) (15 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: C-RMED

Program credit weight: 15

Program Description

The Graduate Certificate in Regenerative Medicine focuses on biology of stem cells, their uses in diagnostic and therapeutic applications, the practicalities of generating them, and using and modifying them for clinical translation. Exploration of the combination of stem cell-based model systems for drug discovery and disease modelling as well as the ethical implications of their use.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
FMED 525	Foundations of Translational Science.	3
HGEN 675	Stem Cell Biology.	3
PHAR 508	Drug Discovery and Development 3.	3

Complementary Courses (6 credits)

Expand allContract all

Course	Title	Credits
CHEE 512	Stem Cell Bioprocess Engineering.	3
EXMD 501	Clinical Applications of Regenerative Medicine.	3

EXMD 505	Directed Readings in Regenerative Medicine .	3
HGEN 660	Genetics and Bioethics.	3

Clinical Research (Gr. Dip.) (30 credits)

Offered by: Medicine (Faculty of Medicine and Health Sciences)

Degree: Graduate Diploma in Clinical Research

Program credit weight: 30

Program Description

The objectives of this program are to give students exposure to both theoretical and practical issues relevant to the conception and conduct of a clinical research study, and to put these principles into practice by participating in an ongoing clinical trial. The training provided qualifies students to manage and design clinical research studies in both academic and industrial settings.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
EXMD 617	Workshop in Clinical Trials 1.	1
EXMD 618	Workshop in Clinical Trials 2.	1
EXMD 619	Workshop in Clinical Trials 3.	1
EXMD 620	Clinical Trials and Research 1.	1
EXMD 625	Clinical Trials and Research 2.	1
EXMD 626	Clinical Trials and Research 3.	1
EXMD 627	Practicum in Clinical Research.	18

Complementary Courses (6 credits)

Six credits at the 500 level or higher chosen from: Experimental Medicine (EXMD), Pharmacology and Therapeutics (PHAR), Epidemiology and Biostatistics (EPIB). With prior approval from the Division's Student Affairs Coordinator, courses at the 500 level or higher, from other Allied Health Sciences departments may be accepted.

Family Medicine (Thesis) (M.Sc.) (45 credits)

Offered by: Family Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Family Medicine is a research-oriented, two-year graduate program of 45 credits. The program focuses on core methodologies, frameworks, and applications of scientific principles within the realm of family medicine research.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
FMED 697	Master's Thesis Research 1.	12
FMED 698	Master's Thesis Research 2.	12

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
FMED 505	Epidemiology and Data Analysis in Primary Care 1.	3
FMED 509	Epidemiology and Data Analysis in Primary Care 2.	3
FMED 603	Foundations of Participatory Research .	1
FMED 614	Foundations of Mixed Methods Research.	2
FMED 616	Applied Literature Reviews.	1
FMED 625	Introduction to Qualitative Research in Health.	3

Elective Courses (8 credits)

8 credits at the 500 level or higher chosen by the student and the Department in consultation with the student's thesis supervisor(s) of which 3 credits may be chosen from another department at McGill.

Course	Title	Credits
FMED 504	Family Medicine Research Seminars.	1
FMED 525	Foundations of Translational Science.	3
FMED 601	Advanced Topics in Family Medicine.	3
FMED 604	Advanced Participatory Research in Health.	3
FMED 605	AI and Analytical Decision-Making in Healthcare.	1
FMED 606	Operational Issues in Survey Methods in Primary Care.	1
FMED 608	Advanced Mixed Methods Seminar in Health Research.	1
FMED 610	Foundations of Family Medicine.	1
FMED 611	Healthcare Systems, Policy and Performance.	3
FMED 612	Evaluation Research and Implementation Science.	1
FMED 615	Applied Knowledge Translation and Exchange in Health.	1
FMED 619	Program Management in Global Health and Primary Health Care.	3
FMED 621	Participatory Health Systems for Safe Birth .	1
FMED 690	Advanced Ethnography: Context, Complexity and Coordination.	3

Family Medicine (Thesis): Bioethics (M.Sc.) (45 credits)

Offered by: Family Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

** Bioethics option no longer available.**

The M.Sc. in Family Medicine; Bioethics is a thesis graduate program option designed to provide graduate training to those interested in studying empirical research methods and bioethics specialization.

Required Courses (31 credits)

Expand allContract all

Course	Title	Credits
BIOE 680	Bioethical Theory.	3
BIOE 681	Bioethics Practicum.	3
BIOE 690	M.Sc. Thesis Literature Survey.	3
BIOE 691	M.Sc. Thesis Research Proposal.	3
BIOE 692	M.Sc. Thesis Research Progress Report.	6
BIOE 693	M.Sc. Thesis.	12
FMED 603	Foundations of Participatory Research .	1

Complementary Course (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
FMED 505	Epidemiology and Data Analysis in Primary Care 1.	3
FMED 625	Introduction to Qualitative Research in Health.	3

Elective Courses (11 credits)

11 credits, at the 500 level or higher, of coursework may be chosen from inside or outside the Department in consultation with the student's academic advisor or supervisor.

Family Medicine (Thesis): Global Health (M.Sc.) (45 credits)

Offered by: Family Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Family Medicine; Global Health emphasizes the foundational values of global primary health care including health equity, cultural safety, social participation in health, and integrated, whole-person care over the life-span. The program provides comprehensive training in quantitative and qualitative methods, the participatory research approach, and integrated knowledge translation and exchange. Topics include primary health care policy and practice, decolonizing approaches, program management, social determinants of health and health equity, and healthcare delivery innovations. The thesis must focus on an international or Canadian global health issue.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
FMED 697	Master's Thesis Research 1.	12
FMED 698	Master's Thesis Research 2.	12

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
FMED 504	Family Medicine Research Seminars.	1
FMED 505	Epidemiology and Data Analysis in Primary Care 1.	3
FMED 603	Foundations of Participatory Research .	1
FMED 615	Applied Knowledge Translation and Exchange in Health.	1
FMED 625	Introduction to Qualitative Research in Health.	3

Complementary Courses (7 or 9 credits)

7 or 9 credits from the following:

Expand allContract all

Course	Title	Credits
FMED 506	Indigenous Perspectives Decolonizing Health Research.	3
FMED 527	Inuit Health in Canadian Context.	1
FMED 604	Advanced Participatory Research in Health.	3
FMED 611	Healthcare Systems, Policy and Performance.	3
FMED 619	Program Management in Global Health and Primary Health Care.	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 613	The Practice of Global Health.	3

Elective Courses (3 or 5 credits)

3 or 5 credits at the 500 level or higher chosen in consultation with the student's thesis supervisor and the Director of the concentration, based on the student's area of interest.

Family Medicine (Thesis): Medical Education (M.Sc.) (45 credits)

Offered by: Family Medicine (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Family Medicine; Medical Education focuses on educating future scholars in family medicine education research. The program includes teaching and learning in research methodologies while emphasizing training in educational theories and topics, with a

particular attention to health professions education. The thesis must concern an educational issue related to family medicine.

Thesis Courses (24 credits)

Thesis subject should be related to medical education.

Expand allContract all

Course	Title	Credits
FMED 697	Master's Thesis Research 1.	12
FMED 698	Master's Thesis Research 2.	12

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EDPE 637	Issues in Health Professions Education.	3
FMED 505	Epidemiology and Data Analysis in Primary Care 1.	3
FMED 610	Foundations of Family Medicine.	1
FMED 614	Foundations of Mixed Methods Research.	2
FMED 625	Introduction to Qualitative Research in Health.	3

Complementary courses (9 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
FMED 509	Epidemiology and Data Analysis in Primary Care 2.	3
FMED 603	Foundations of Participatory Research .	1
FMED 606	Operational Issues in Survey Methods in Primary Care.	1
FMED 615	Applied Knowledge Translation and Exchange in Health.	1
FMED 616	Applied Literature Reviews.	1

6 credits from the following:

Expand allContract all

Course	Title	Credits
EDEC 612	Digital Media and Learning.	3
EDEM 644	Curriculum Development and Implementation.	3
EDEM 673	Leadership Theory in Education.	3
EDPE 635	Theories of Learning and Instruction.	3
EDPE 664	Critical Thinking	3
EDPE 670	Educational Assessment and Evaluation.	3

Family Medicine & Primary Care (Ph.D.)

Offered by: Family Medicine (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The PhD program will build upon our MSc in Family Medicine.

Research topics in the field of family medicine and primary health care cross conventional discipline boundaries and research traditions. Our training program focuses on patient-oriented, community-based research using innovative methodologies and participatory approaches. The program advances academic excellence in family medicine and primary health care.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

PhD Comprehensive Exam

PhD students are expected to demonstrate proficiency in the following topics: basic statistics, epidemiology, qualitative and mixed methods, literature synthesis, knowledge translation and participatory research approaches. If a PhD candidate does not have prior training in any of these areas and believes that he or she cannot answer questions on these topics during the comprehensive exam, additional courses will be required for the PhD student.

Expand allContract all

Course	Title	Credits
FMED 701	PhD Comprehensive Examination.	0

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
FMED 601	Advanced Topics in Family Medicine.	3
FMED 604	Advanced Participatory Research in Health.	3
FMED 702	Advanced Doctoral Primary Care Research Seminars.	1

¹ Note: this slot course must be taken three times (3 cr.)

Elective Course (3 credits)

3 credits in advanced research methods, at the 600 level or higher. May be chosen from outside the Department, in consultation with the student's academic advisor or supervisor.

Oncology (Grad. Dip.) (30 credits)

Offered by: Gerald Bronfman Dept Oncology (Faculty of Medicine and Health Sciences)

Degree: D-ONCO**Program credit weight:** 30

Program Description

The Graduate Diploma in Oncology provides exposure to the entire spectrum of principles and practice in all fields of oncology as well as its research domains while allowing exploration in more detail of a specific area of focus through courses and a practicum. The areas of focus are: population and global cancer control, psychosocial oncology/palliative care, clinical cancer research, or cancer care services and quality.

Required Courses (12 Credits)

Expand allContract all

Course	Title	Credits
ONCO 610D1	Fundamentals of Oncology and Cancer Research.	3
ONCO 610D2	Fundamentals of Oncology and Cancer Research.	3
ONCO 620	Best Practices in Biomedical Research.	3
ONCO 630	Oncology Practicum.	3

Complementary Courses (12 Credits)

6 credits from:

Expand allContract all

Course	Title	Credits
EPIB 671	Cancer Epidemiology and Prevention.	3
PPHS 612	Principles of Public Health Practice.	3

OR

Expand allContract all

Course	Title	Credits
NUR2 783	Psychosocial Oncology Research.	3
ONCO 635	Qualitative and Psychosocial Health Research.	3

OR

Expand allContract all

Course	Title	Credits
EXMD 617	Workshop in Clinical Trials 1.	1
EXMD 618	Workshop in Clinical Trials 2.	1
EXMD 619	Workshop in Clinical Trials 3.	1
ONCO 615	Principles and Practice of Clinical Trials.	3

OR

Expand allContract all

Course	Title	Credits
ONCO 625	Quality Improvement Principles and Methods.	3
PPHS 528	Economic Evaluation of Health Programs.	3

If a course in the course grouping is not available in a given year, a suitable replacement will be chosen by the Graduate Program Director in consultation with the Program Committee.

3 credits from:

Expand allContract all

Course	Title	Credits
DENT 505	Epidemiology and Data Analysis in Primary Care 1.	3
EPIB 507	Biostats for Health Sciences.	3
EPIB 521	Regression Analysis for Health Sciences.	3
EXMD 634	Quantitative Research Methods.	3
FMED 505	Epidemiology and Data Analysis in Primary Care 1.	3

OR

3 credits of a research design or statistics course at the 500 level or higher chosen in consultation with the student's mentor and approved by the Program Committee and the Graduate Program Director. Students who already have a very strong background in statistics may be exempt from taking a statistics course and would choose another 3-credit course. This must be approved by the Program Committee and the Graduate Program Director.

3 credits from:

Expand allContract all

Course	Title	Credits
EPIB 671	Cancer Epidemiology and Prevention.	3
EXMD 614	Environmental Carcinogenesis.	3
EXMD 620	Clinical Trials and Research 1.	1
EXMD 625	Clinical Trials and Research 2.	1
EXMD 626	Clinical Trials and Research 3.	1
EXMD 640	Experimental Medicine Topic 1.	3
EXSU 505	Trends in Precision Oncology.	3
FMED 619	Program Management in Global Health and Primary Health Care.	3
ONCO 611	Proteomics for Precision Medicine.	3
ONCO 615	Principles and Practice of Clinical Trials.	3
ONCO 625	Quality Improvement Principles and Methods.	3
ONCO 635	Qualitative and Psychosocial Health Research.	3
ONCO 645	Seminars in Global Oncology.	3
POTH 637	Cancer Rehabilitation.	3
PPHS 528	Economic Evaluation of Health Programs.	3
PSYC 507	Emotions, Stress, and Illness.	3
SWRK 668	Living with Illness, Loss and Bereavement.	3

The course will be chosen in consultation with the student's mentor and must be approved by the Program Committee and the Graduate Program Director.

Elective Courses (6 credits)

6 credits at the 500 level or higher can be chosen from the course list above or from other courses. The courses do no necessarily have to include cancer-related content, but must have relevance to the field. The courses will be chosen in consultation with the student's mentor and must be approved by the Program Committee and the Graduate Program Director.

Otolaryngology (Thesis) (M.Sc.) (45 credits)

Offered by: Otolaryngology Head/Neck Surg. (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
OTOL 690	M.Sc. Thesis 1.	3
OTOL 691	M.Sc. Thesis 2.	3
OTOL 692	M.Sc. Thesis 3.	6
OTOL 693	M.Sc. Thesis 4.	6
OTOL 694	M.Sc. Thesis 5.	12

Required Courses (12 credits)

When appropriate, courses OTOL 602 Physiology, Histopathology and Clinical Otolaryngology 1., OTOL 612 Physiology, Histopathology and Clinical Otolaryngology 2., OTOL 603 Advanced Scientific Principles - Otolaryngology 1., or OTOL 613 Advanced Scientific Principles - Otolaryngology 2. may be replaced by other Basic Science or Clinical (500, 600, or 700 level) courses of relevance to Otolaryngology, as recommended or approved by the Department.

Expand allContract all

Course	Title	Credits
OTOL 602	Physiology, Histopathology and Clinical Otolaryngology 1.	3
OTOL 603	Advanced Scientific Principles - Otolaryngology 1.	3
OTOL 612	Physiology, Histopathology and Clinical Otolaryngology 2.	3
OTOL 613	Advanced Scientific Principles - Otolaryngology 2.	3

Complementary Course (3-4 credits)

Expand allContract all

Course	Title	Credits
EPIB 507	Biostats for Health Sciences.	3

or equivalent.

Students aiming to acquire an interdisciplinary background will be expected to take additional elective courses, at the undergraduate level if necessary.

Pathology (Thesis) (M.Sc.) (45 credits)

Offered by: Pathology (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

All students must take PATH 300 Human Disease, plus a course in statistics if they have not completed these requirements before admission.

Candidates with insufficient background in one of the biomedical sciences will be required to take specific courses to remedy the deficiency. These and additional courses that are relevant to the student's area of research will be chosen in consultation with the research director and Graduate Students Committee.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
PATH 690	M.Sc. Thesis Research Project 1.	9
PATH 691	M.Sc. Thesis Research Project 2.	9
PATH 692	M.Sc. Thesis Research Project 3.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
PATH 620	Research Seminar 1.	3
PATH 622	Research Seminar 2.	3

Complementary Courses (9 credits)

3 credits, one of the following courses:

Expand allContract all

Course	Title	Credits
PATH 613	Research Topics in Pathology 1.	3
PATH 614	Research Topics in Pathology 2.	3

6 credits, two 500-, 600-, or 700-level courses offered by the Department; subject to approval of the research director and Graduate Students Committee, up to 3 credits of 500-, 600-, or 700-level credits may be taken in another department.

Pathology (Ph.D.)

Offered by: Pathology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy (Ph.D.) in Pathology covers research topics across multiple disciplines in a broad range of diseases including cancer, autoimmune disorders, pulmonary diseases and neurodegenerative disorders. The program offers access to cutting-edge research methodologies for in-depth analysis of fundamental, translational and/or clinical research to understand mechanisms of disease pathogenesis.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
PATH 620	Research Seminar 1.	3
PATH 622	Research Seminar 2.	3
PATH 701	Comprehensive Examination - Ph.D. Candidates.	0

Complementary Courses (9 credits)

3-9 credits from the following:

Expand allContract all

Course	Title	Credits
PATH 504	Disease in Depth.	3
PATH 607	Biochemical Pathology.	3
PATH 652	Molecular Biology of Disease.	3

0-6 credits at the 500 level or higher, which may be chosen from courses outside the Department of Pathology in consultations with the research director and graduate student advisory committee.

Mental Health (Thesis) (M.Sc.) (45 credits)

Offered by: Psychiatry (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Mental Health provides training in research methodology related to psychiatry and mental health topics and entails the completion of a thesis research project.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
PSYT 691	Thesis Research 1.	12
PSYT 692	Thesis Research 2.	12
PSYT 693	Thesis Research 3.	12

Complementary Courses (9 credits)

9 credits of graduate-level courses approved by the student's Supervisory Committee.

Courses are selected on the basis of the area of research interest and the background of the student, and must include a course in statistical analysis if not presented upon admission.

Mental Health (Ph.D.)

Offered by: Psychiatry (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Mental Health, which is rooted in a strong tradition of multidisciplinary research approaches, focuses on the development of mental health services and policy, social and cultural psychiatry, and clinical and transnational psychiatry. Students are exposed to a rich body of knowledge in psychiatry and mental health research methods by participating in regular academic activities organized by different units of the Department of Psychiatry, such as weekly research seminars, global mental health rounds, Indigenous mental health workshops, the Summer Program in Cultural Psychiatry, and the conferences and workshops organized by the Advanced Study Institute in Cultural Psychiatry.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
PSYT 606	Mental Illness: Symptoms Diagnostics and Determinants.	3
PSYT 701	Comprehensive Exam Mental Health.	0

Complementary Courses (3 credits)

3 credits from the following or 3 credits of 500 level or higher from another unit chosen in consultation with the student's academic advisor or supervisor:

Expand allContract all

Course	Title	Credits
PSYT 500	Advances: Neurobiology of Mental Disorders.	3
PSYT 515	Advanced Studies in Addiction.	3
PSYT 620	Trends in Clinical Psychiatry.	3
PSYT 625	Qualitative Research in Health Care.	3
PSYT 630	Statistics for Neurosciences.	3
PSYT 633	Social and Cultural Research Methods.	3
PSYT 682	Psychosocial Issues of Disease.	3
PSYT 696	Special Topics in Psychiatry.	3
PSYT 711	Cultural Psychiatry.	3
PSYT 713	Psychiatric Epidemiology.	3

Surgical and Interventional Sciences (Thesis) (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Surgical Innovation program focuses on hands-on learning experience and the skills necessary for the creation of novel, needs driven and marketable prototypes used in development of novel surgical and medical devices. Identification of clinical needs and innovate solutions.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EXSU 602	Knowledge Management 2.	3

And:

3 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Complementary Courses (9 credits)

9 credits, taken from 500, 600, or 700 level courses in consultation with the Research Advisory Committee.

Depending on their individual background, students may be asked by their Research Advisory Committee to take additional courses.

Surgical and Interventional Sciences (Thesis): Digital Health Innovation (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Digital Health Innovation focuses on the basics of clinical epidemiology, medical artificial intelligence (AI), clinical innovation, and applied data science, including the use and generation of digitized health and social data using specialized software. Fundamentals of current AI applications in medicine, methods to employ big data in clinical tool development, mathematical principals underpinning digital health and big data, and design thinking methodology in clinical innovation. High-volume streams of clinical and health-related data from clinical systems, wearables, and social media.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
EXMD 600	Principles of Clinical Research.	3
EXMD 601	Real World Applications of Data Science and Informatics.	3
EXMD 634	Quantitative Research Methods.	3
EXSU 500	Artificial Intelligence in Medicine .	3
EXSU 620	Surgical Innovation 1.	3

Surgical and Interventional Sciences (Thesis): Global Surgery (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Global Surgery emphasizes health care needs specifically within the surgical field in resource-limited settings. It comprises three main pillars: research, education, and mentorship. The program involves extensive research work, the design and implementation of innovative approaches in surgical care and injury surveillance, that advance the surgical capacities in low and middle income countries. The program offers global surgical endeavours allowing professionals from partner countries and Canada to engage in a learning and knowledge transfer experience. The program provides the opportunity to engage in international research projects including injury epidemiology surveillance and assessment of surgical access through the study of databases. The thesis must be relevant to global surgery.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
EPIB 507	Biostats for Health Sciences.	3
EPIB 521	Regression Analysis for Health Sciences.	3
EXSU 602	Knowledge Management 2.	3

Complementary Courses (6 credits)

6 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

Depending on their individual background, students may be asked by their Research Advisory Committee to take additional courses.

Surgical and Interventional Sciences (Thesis): Surgical Education (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Surgical Education provides a foundation in surgical education practice and research. The program highlights the unique teaching and learning environment of surgery coupled with a basis in educational theory, curricular design, and implementation. A major emphasis of this program is surgical educational research with the elaboration, designs, implementation, and analysis of a research project founded in best practices of educational research. The research project may encompass, but is not limited to, surgical stimulation, technical skills, surgical technology, and assessment.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
EDPH 689	Teaching and Learning in Higher Education.	3
EXSU 603	Surgical Education Foundations.	3

Complementary Courses (9 credits)

3 credits from the following:

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EDPE 637	Issues in Health Professions Education.	3
EXSU 606	Statistics for Surgical Research.	3

And:

6 credits, taken from 500-, 600-, or 700-level courses in consultation with the Research Advisory Committee.

Depending on their individual backgrounds, students may be asked by their Research Advisory Committee to take additional courses.

Surgical and Interventional Sciences (Thesis): Surgical Innovation (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Surgical Innovation program focuses on hands-on learning experience and the skills necessary for the creation of novel, needs driven and marketable prototypes used in development of novel surgical and medical devices. Identification of clinical needs and innovate solutions.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EXSU 619	The Hospital Environment.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3

And:

3 credits from the following:

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Complementary Courses (3 credits)

3 credits taken from 500-, 600-, or 700- level courses in consultation with the Research Advisory Committee.

Depending on their individual background, students may be asked by their Research Supervisory Committee to take additional courses.

Surgical and Interventional Sciences (Thesis): Surgical Outcomes Research (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Surgical Outcomes Research program focuses on the science of measuring and improving the outcomes of surgical patients. The program addresses research

methods, biostatistics, and strategies to measure and improve postoperative outcomes. The thesis component of the program must focus on a topic in the field of surgical outcomes research.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
EXSU 610	Surgical Outcomes Research Foundations.	3
EXSU 690	M.Sc. Research 1.	4
EXSU 691	M.Sc. Research 2.	4
EXSU 692	M.Sc. Research 3.	4
EXSU 693	M.Sc. Thesis.	18

Complementary Courses (12 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 600	Clinical Epidemiology.	3
EXMD 600	Principles of Clinical Research.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 507	Biostats for Health Sciences.	3
EXMD 634	Quantitative Research Methods.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
EPIB 521	Regression Analysis for Health Sciences.	3
EPIB 629	Knowledge Synthesis.	3
EXSU 500	Artificial Intelligence in Medicine .	3
FMED 625	Introduction to Qualitative Research in Health.	3
PPHS 527	Economics for Health Services Research and Policy.	3

Or other relevant 500-, 600-, or 700-level courses upon approval of the student's Research Advisory Committee.

Surgical and Interventional Sciences (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

This M.Sc. in Surgical and Interventional Sciences; Non#Thesis offers training in core fundamentals of modern surgical research. The

program is flexible and provides the core disciplines in more specific areas such as global surgery, innovation, education, or other disciplines. The individual research interests of the faculty cover a wide spectrum, from injury, repair, recovery, tissue engineering, transplantation, fibrosis, cancer and stem cell biology, biomechanics, and organ failure, to surgical simulation, surgical innovation, education, and evaluative/outcomes research. Importantly, the project(s) is performed in a collaborative spirit with basic and clinician scientists working together using interdisciplinary approaches to solve the most challenging problems in the field of surgery.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
EXSU 500	Artificial Intelligence in Medicine .	3
EXSU 602	Knowledge Management 2.	3
EXSU 623	Surgery Research Project 2.	6

Complementary Courses (24 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Or 3 credits of a research design or statistics course at the 500 level or higher.

3 credits selected from:

Expand allContract all

Course	Title	Credits
EXSU 603	Surgical Education Foundations.	3
FMED 525	Foundations of Translational Science.	3

¹
6 credits selected from the following :

Expand allContract all

Course	Title	Credits
EDPE 637	Issues in Health Professions Education.	3
EDPH 689	Teaching and Learning in Higher Education.	3
EPIB 521	Regression Analysis for Health Sciences.	3
EXSU 505	Trends in Precision Oncology.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3
PPHS 528	Economic Evaluation of Health Programs.	3

¹ Note: Students either take EDPE 637 Issues in Health Professions Education. and EDPH 689 Teaching and Learning in Higher Education.; or EPIB 521 Regression Analysis for Health Sciences. and PPHS 528 Economic Evaluation of Health Programs.; or EXSU 620 Surgical Innovation 1. and EXSU 621 Surgical Innovation 2.; or EXSU 505 Trends in Precision Oncology. and any course in the

course grouping available in a given year if the number of registered students has not exceeded the projected enrolment.

12 credits selected from:

Expand allContract all

Course	Title	Credits
BMDE 653	Patents in Biomedical Engineering.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3
DENT 669	Extracellular Matrix Biology.	3
EDPE 637	Issues in Health Professions Education.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3
EDPH 689	Teaching and Learning in Higher Education.	3
EPIB 681	Global Health: Epidemiological Research.	3
EXMD 609	Cellular Methods in Medical Research.	3
EXMD 610	Molecular Methods in Medical Research.	3
EXSU 501	Medical Technology Internship 1.	6
EXSU 601	Knowledge Management 1.	3
EXSU 605	Biomedical Research Innovation.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3
EXSU 622D1	Surgery Research Project 1.	6
EXSU 622D2	Surgery Research Project 1.	6
EXSU 684	Signal Transduction.	3
FMED 619	Program Management in Global Health and Primary Health Care.	3
PHGY 518	Artificial Cells.	3
PHGY 550	Molecular Physiology of Bone.	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Elective Courses (9 credits)

9 credits taken from 500-, 600-, or 700-level courses at the University, which may include courses from the list above, will be taken with the approval of the director of the program/adviser.

Surgical and Interventional Sciences (Non-Thesis): Oncology (M.Sc.) (45 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Surgical and Interventional Sciences; Non#Thesis - Oncology program offers training in surgical research related to oncology and examines the broad range of disciplines in cancer research and care. In addition to an oncology practicum that focuses

on a research project in a chosen cancer research discipline, there also will be a surgery research project with a focus on cancer.

Required Courses (24 credits)

[Expand all](#) [Contract all](#)

Course	Title	Credits
EXSU 500	Artificial Intelligence in Medicine .	3
EXSU 602	Knowledge Management 2.	3
EXSU 623	Surgery Research Project 2.	6
ONCO 610D1	Fundamentals of Oncology and Cancer Research.	3
ONCO 610D2	Fundamentals of Oncology and Cancer Research.	3
ONCO 620	Best Practices in Biomedical Research.	3
ONCO 630	Oncology Practicum.	3

Complementary Courses (6 credits)

3 credits selected from:

[Expand all](#) [Contract all](#)

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Or a 3 credits of a research design or statistics course at the 500 level or higher.

3 credits selected from:

[Expand all](#) [Contract all](#)

Course	Title	Credits
BMDE 653	Patents in Biomedical Engineering.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3
EDPE 637	Issues in Health Professions Education.	3
EDPE 687	Qualitative Methods in Educational Psychology.	3
EDPH 689	Teaching and Learning in Higher Education.	3
EPIB 521	Regression Analysis for Health Sciences.	3
EPIB 681	Global Health: Epidemiological Research.	3
EXMD 609	Cellular Methods in Medical Research.	3
EXMD 610	Molecular Methods in Medical Research.	3
EXSU 505	Trends in Precision Oncology.	3
EXSU 601	Knowledge Management 1.	3
EXSU 603	Surgical Education Foundations.	3
EXSU 605	Biomedical Research Innovation.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 684	Signal Transduction.	3
FMED 525	Foundations of Translational Science.	3

FMED 619	Program Management in Global Health and Primary Health Care.	3
ONCO 611	Proteomics for Precision Medicine.	3
ONCO 615	Principles and Practice of Clinical Trials.	3
ONCO 625	Quality Improvement Principles and Methods.	3
ONCO 635	Qualitative and Psychosocial Health Research.	3
ONCO 645	Seminars in Global Oncology.	3
PHGY 518	Artificial Cells.	3
PHGY 550	Molecular Physiology of Bone.	3
PPHS 511	Fundamentals of Global Health.	3
PPHS 528	Economic Evaluation of Health Programs.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Electives (15 credits)

15 credits at the 500 level or higher may be chosen from the course list above or from other courses. The courses should have a surgery or oncology related theme. Selections to be approved by the director of the program or advisor.

Surgical and Interventional Sciences (Ph.D.)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Surgical and Interventional Sciences focuses on the field of surgery and interventions. The program emphasizes research that involves innovative surgical techniques, patient management strategies, and the application of new technological advances in the medical field.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

[Expand all](#) [Contract all](#)

Course	Title	Credits
EXSU 700	Comprehensive Examination.	0
And:		

3 credits from the following:

[Expand all](#)
[Contract all](#)

Course	Title	Credits	And:
EDPE 575	Statistics for Practitioners.	3	3 credits from the following:
EPIB 507	Biostats for Health Sciences.	3	Expand allContract all
EXSU 606	Statistics for Surgical Research.	3	Course Title Credits

Complementary Courses (12 credits)

6 credits from the following:

Course	Title	Credits
EDPH 689	Teaching and Learning in Higher Education.	3
EXMD 634	Quantitative Research Methods.	3
EXSU 500	Artificial Intelligence in Medicine .	3
EXSU 601	Knowledge Management 1.	3
EXSU 602	Knowledge Management 2.	3
EXSU 603	Surgical Education Foundations.	3
EXSU 619	The Hospital Environment.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3

And 6 credits at the 500 level or higher in the student's specialty, selected in consultation with the Research Supervisory Committee.

Surgical Innovation (Gr. Cert.) (15 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)
Program credit weight: 15

Program Description

The core of this 15-credit graduate program consists of two innovation courses (EXSU 620 Surgical Innovation 1. and EXSU 621 Surgical Innovation 2.) delivered by McGill Department of Surgery, with some sessions offered by external partners: John Molson School of Business (lean start-up), Concordia (software design), Local Industry (Regulatory & IP), and ETS (prototyping). the first semester of the program core focuses on team building and, supported by lectures, the students embark on a needs-finding process by observing all aspect of clinical activity in their focus themes. Trainees learn basic prototyping skills, start up organization and project management, supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This certificate provides a solid foundation in the innovation process.

Required Courses (12 credits)

9 credits in:

Course	Title	Credits
EXSU 619	The Hospital Environment.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3

Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3
EPIB 507	Biostats for Health Sciences.	3
EXSU 606	Statistics for Surgical Research.	3

Some courses may be substituted with equivalents if timetabling requires it.

Elective Course (3 credits)

3 credits at the 500 level or higher, taken in consultation with the program director/adviser.

Surgical Innovation (Gr. Dip.) (30 credits)

Offered by: Surgery (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The cores of this 30-credit program are two-fold. Firstly, two innovation courses are offered by the McGill Department of Experimental Surgery (EXSU 620 Surgical Innovation 1. & EXSU 621 Surgical Innovation 2.) and supporting courses are delivered by the McGill Department of Surgery with some sessions in those courses provided by external partners: Local Industry (Regulatory & IP), the John Molson School of Business (JMSB) (lean start-up), Concordia University (software design), and L'École de technologie supérieure (ETS) (prototyping). Secondly, fundamental business and management courses provided by the School of Continuing Studies (McGill) and JMSB are taken concurrently and reinforce the innovation project team experience. Students embark on a hospital-based needs finding process by observing all aspects of clinical activity in their focus themes. The trainees learn basic prototyping skills, start-up organization, and project management. This is supplemented by a basic statistics course and an introduction to the current status of biomedical research innovation. This graduate diploma then gives a business-oriented training in the surgical innovation process.

Required Courses (15 credits)

12 credits in:

Course	Title	Credits
CORG 556	Managing and Engaging Teamwork.	3
EXSU 619	The Hospital Environment.	3
EXSU 620	Surgical Innovation 1.	3
EXSU 621	Surgical Innovation 2.	3

And:

3 credits from the following:

Expand allContract all

Course	Title	Credits	Course	Title	Credits
EDPE 575	Statistics for Practitioners.	3	ANAT 601	MSc Seminar Examination.	3
EPIB 507	Biostats for Health Sciences.	3	ANAT 695	Seminars in Cell Biology 1.	3
EXSU 606	Statistics for Surgical Research.	3	ANAT 696	Seminars in Cell Biology 2.	3
			ANAT 697	Seminars in Cell Biology 3.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
CACC 520	Accounting for Management.	3
CMR2 642	Marketing Principles and Applications.	3
CPL2 610	Practical Communication and Presentation Skills .	3

Or:

9 credits of graduate-level courses taken at Concordia University, chosen in consultation with the program director/advisor.

Elective Courses (6 credits)

6 credits at the 500 lever or higher, taken in consultation with the program director/advisor.

Some courses may be substituted with equivalents at the 500 level or higher if timetabling or background of the student requires it, e.g., prior qualification in accounting.

Cell Biology (Thesis) (M.Sc.) (45 credits)

Offered by: Anatomy and Cell Biology (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Cell Biology focuses on the study of the assembly, structure and functional dynamics of macromolecular protein complexes. The research topics range from the understanding of the mechanisms of bacterial antimicrobial resistance to unveiling the mechanisms of cell division, transport and sorting of proteins, structure and function of extracellular matrices, and the mechanisms of cancer and aging. Training includes the application of cutting-edge technologies to molecular and cell biology, based on hypothesis-driven research.

Thesis Course (24 credits)

Expand allContract all

Course	Title	Credits
ANAT 698	M.Sc. Thesis Research 1.	24

Required Course (12 credits)

Expand allContract all

Complementary Courses (9 credits)

6 credits from one of two streams: Cell Developmental Biology Stream or Human Systems Biology Stream

Cell Developmental Biology Stream

Expand allContract all

Course	Title	Credits
ANAT 690D1	Cell and Developmental Biology.	3
ANAT 690D2	Cell and Developmental Biology.	3

Human Systems Biology Stream

** This stream is currently under review. **

6 credits required:

Expand allContract all

Course	Title	Credits
ANAT 690D1	Cell and Developmental Biology.	3
ANAT 690D2	Cell and Developmental Biology.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
BMDE 502	BME Modelling and Identification.	3
BMDE 519	Biomedical Signals and Systems.	3
BTEC 501	Bioinformatics.	3
COMP 564	Advanced Computational Biology Methods and Research.	3
COMP 680	Mining Biological Sequences.	4
EXMD 602	Techniques in Molecular Genetics.	3
MIMM 613	Current Topics 1.	3
MIMM 614	Current Topics 2.	3
MIMM 615	Current Topics 3.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3

Upon consultation with the supervisor, students may select a 3-credit course outside of this list from Biomedical Science courses at the 500-600 level.

Cell Biology (Ph.D.)

Offered by: Anatomy and Cell Biology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
ANAT 690D1	Cell and Developmental Biology.	3
ANAT 690D2	Cell and Developmental Biology.	3
ANAT 695	Seminars in Cell Biology 1.	3
ANAT 696	Seminars in Cell Biology 2.	3
ANAT 697	Seminars in Cell Biology 3.	3
ANAT 701	Ph.D. Comprehensive Examination.	0

Biochemistry (Thesis) (M.Sc.) (45 credits)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Biochemistry focuses on the chemistry, structure and function of biological molecules through seminars, courses and a major part of work in a research laboratory.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
BIOC 697	Thesis Research 1.	9
BIOC 698	Thesis Research 2.	12
BIOC 699	Thesis Research 3.	15

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
BIOC 696D1	Seminars in Biochemistry.	1
BIOC 696D2	Seminars in Biochemistry.	1
BIOC 696N1	Seminars in Biochemistry.	1
BIOC 696N2	Seminars in Biochemistry.	1

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2.

¹ Complementary Courses (6 credits)

¹ Complementary courses are chosen in consultation with the Research Director.

At least 3 credits must be chosen from the following:

Expand allContract all

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3
EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

0-3 credits, at the 500 level or higher in biomedical and allied sciences.

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function. and BIOC 454 Nucleic Acids. are additional requirements for those who have not previously completed equivalent courses in their prior training.

Biochemistry (Thesis): Bioinformatics (M.Sc.) (45 credits)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Biochemistry; Bioinformatics involves the development of strategies for experimental design, the construction of computer science tools to analyze large datasets, the application of modelling techniques, the integration of biological databases, and the use of algorithms and statistics. Permission of the Graduate Program Director to enroll in this concentration is required to ensure that the proposed research thesis focusses on bioinformatics related to biochemistry.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
BIOC 694	Thesis Research 1 - Bioinformatics	6
BIOC 698	Thesis Research 2.	12
BIOC 699	Thesis Research 3.	15

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOC 696D1	Seminars in Biochemistry.	1 1
BIOC 696D2	Seminars in Biochemistry.	1 1
BIOC 696N1	Seminars in Biochemistry.	1 1
BIOC 696N2	Seminars in Biochemistry.	1 1
QLSC 601D1	Quantitative Life Sciences Seminars 1.	0
QLSC 601D2	Quantitative Life Sciences Seminars 1.	0

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2.

¹ **Complementary Courses (9 credits)**

¹ Complementary courses are chosen in consultation with the Research Director.

3 credits to be chosen from the following courses:

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3
EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

6 credits from the following courses:

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function. and BIOC 454 Nucleic Acids. are additional requirements for those who have not previously completed equivalent courses in their prior training.

Biochemistry (Thesis): Chemical Biology (M.Sc.) (45 credits)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Biochemistry; Chemical Biology is overseen by the Chemical Biology Thematic Group, and it engages in a diverse range of research topics, which span structural biology, enzymology, nucleic acid research, signalling pathways, single molecule biophysics, biophysical chemistry of living tissues, and new chemistry and physics from biological systems to develop pharmaceutical applications. The thesis must focus on chemical biology related to biochemistry.

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
BIOC 695	Thesis Research 1 (Chemical - Biology).	6
BIOC 698	Thesis Research 2.	12
BIOC 699	Thesis Research 3.	15

Required Course (6 credits)

Expand allContract all

Course	Title	Credits
BIOC 610	Seminars in Chemical Biology 1.	1.5
BIOC 611	Seminars in Chemical Biology 2	1.5
BIOC 696D1	Seminars in Biochemistry.	1.5
BIOC 696D2	Seminars in Biochemistry.	1.5
BIOC 696N1	Seminars in Biochemistry.	1.5
BIOC 696N2	Seminars in Biochemistry.	1.5

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2.

¹ **Complementary Courses (6 credits)**

¹ Complementary courses are chosen in consultation with the Research Director.

3 credits from the following:

Course	Title	Credits
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
PHAR 503	Drug Discovery and Development 1.	3

3 credits from the following:

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
CHEM 522	Stereochemistry.	3

CHEM 582	Supramolecular Chemistry.	3	BIOC 702	Ph.D. Thesis Proposal. ²	2	0
CHEM 591	Bioinorganic Chemistry.	3	BIOC 703	Ph.D. Seminar.	2	0
CHEM 621	Reaction Mechanisms in Organic Chemistry.	3				
CHEM 629	Organic Synthesis.	3				
EXMD 510	Bioanalytical Separation Methods.	3				
EXMD 602	Techniques in Molecular Genetics.	3				
EXMD 615	Essentials of Glycobiology.	3				
EXMD 635D1	Experimental/Clinical Oncology.	3				
EXMD 635D2	Experimental/Clinical Oncology.	3				
PHAR 504	Drug Discovery and Development 2.	3				
PHAR 562	Neuropharmacology.	3				
PHAR 563	Endocrine Pharmacology.	3				
PHAR 707	Topics in Pharmacology 6.	3				

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function, and BIOC 454 Nucleic Acids, are additional requirements for those who have not previously completed equivalent courses in their prior training. These additional courses are not counted towards the credits for this program.

Biochemistry (Ph.D.)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Biochemistry focuses on the chemistry, structure and function of biological molecules through seminars, courses and a major part of work in a research laboratory.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
BIOC 696D1	Seminars in Biochemistry. ¹	1.5
BIOC 696D2	Seminars in Biochemistry. ¹	1.5
BIOC 696N1	Seminars in Biochemistry. ¹	1.5
BIOC 696N2	Seminars in Biochemistry. ¹	1.5
BIOC 701	Research Seminar 1. ²	0

Complementary Courses (6 credits)¹

¹ Complementary courses are chosen in consultation with the Research Director.

3-6 credits selected from:

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3
EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

0-3 credits, at the 500 level or higher in the biomedical and allied sciences.

The Graduate Advisory Committee may stipulate additional course work depending on the background of the candidate. BIOC 450 Protein Structure and Function, and BIOC 454 Nucleic Acids, are additional requirements for those who have not previously completed equivalent courses in their prior training.

Biochemistry: Bioinformatics (Ph.D.)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Biochemistry; Bioinformatics involves the development of strategies for experimental design, the construction of computer science tools to analyze large datasets, the application of modelling techniques, the integration of biological databases, and the use of algorithms and statistics. Permission of the Graduate Program Director

to enroll in this concentration is required to ensure that the proposed research thesis focusses on bioinformatics related to biochemistry.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOC 696D1	Seminars in Biochemistry.	1
BIOC 696D2	Seminars in Biochemistry.	1
BIOC 696N1	Seminars in Biochemistry.	1
BIOC 696N2	Seminars in Biochemistry.	1
BIOC 701	Research Seminar 1.	2
BIOC 702	Ph.D. Thesis Proposal.	2
BIOC 703	Ph.D. Seminar.	2
QLSC 601D1	Quantitative Life Sciences Seminars 1.	0
QLSC 601D2	Quantitative Life Sciences Seminars 1.	0

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2.

Students fast-tracking from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level. Likewise, students fast-tracking from the M.Sc. to the Ph.D. program, and who registered for and passed QLSC 601 at the M.Sc. level, do not register for QLSC 601 at the Ph.D. level.

² NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 Research Seminar 1. in the third term after admission to the program, BIOC 702 Ph.D. Thesis Proposal. in the fifth or sixth term, and BIOC 703 Ph.D. Seminar. approximately six months prior to submission of the Ph.D. thesis.

Complementary Courses (9 credits)¹

¹ Complementary courses are chosen in consultation with the Research Director.

3 credits from the following:

Expand allContract all

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3

BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3
EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function. and BIOC 454 Nucleic Acids. are additional requirements for those who have not previously completed equivalent courses in their prior training.

Biochemistry: Chemical Biology (Ph.D.)

Offered by: Biochemistry (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Biochemistry; Chemical Biology is overseen by the Chemical Biology Thematic Group, and it engages in research topics that span structural biology, enzymology, nucleic acid research, signaling pathways, single molecule biophysics, biophysical chemistry of living tissues, and new chemistry and physics from biological systems to develop pharmaceutical applications. The thesis must focus on chemical biology related to biochemistry.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (7 credits)

Expand allContract all

Course	Title	Credits
BIOC 610	Seminars in Chemical Biology 1.	1
BIOC 611	Seminars in Chemical Biology 2	1
BIOC 696D1	Seminars in Biochemistry.	1

			Course	Title	Credits
BIOC 696D2	Seminars in Biochemistry. ¹	1.5	CHEM 522	Stereochemistry.	3
BIOC 696N1	Seminars in Biochemistry. ¹	1.5	CHEM 582	Supramolecular Chemistry.	3
BIOC 696N2	Seminars in Biochemistry. ¹	1.5	CHEM 591	Bioinorganic Chemistry.	3
BIOC 701	Research Seminar 1. ²	0	CHEM 621	Reaction Mechanisms in Organic Chemistry.	3
BIOC 702	Ph.D. Thesis Proposal. ²	0	CHEM 629	Organic Synthesis.	3
BIOC 703	Ph.D. Seminar. ²	0	EXMD 510	Bioanalytical Separation Methods.	3

¹ Students choose either BIOC 696D1/D2 or BIOC 696N1/N2. Students fast-tracking from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 696 at the M.Sc. level, do not register for BIOC 696 at the Ph.D. level. Likewise, students fast-tracking from the M.Sc. to the Ph.D. program, and who registered for and passed BIOC 610 and 611 at the M.Sc. level, do not register for BIOC 610 and 611 at the Ph.D. level.

² NOTE: Students DO NOT register for these courses until notified by the Student Affairs Officer.

Students must complete BIOC 701 Research Seminar 1. in the third term after admission to the program, BIOC 702 Ph.D. Thesis Proposal. in the fifth or sixth term, and BIOC 703 Ph.D. Seminar. approximately six months prior to submission of the Ph.D. thesis.

¹ Complementary Courses (9 credits)

¹ Complementary courses are chosen in consultation with the Research Director.

3 credits from the following:

Expand allContract all

Course	Title	Credits
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
PHAR 503	Drug Discovery and Development 1.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 604	Macromolecular Structure.	3
BIOC 605	Protein Biology and Proteomics.	3
BIOC 670	Biochemistry of Lipoproteins.	3
EXMD 615	Essentials of Glycobiology.	3
EXMD 635D1	Experimental/Clinical Oncology.	3
EXMD 635D2	Experimental/Clinical Oncology.	3

Plus additional credits to a total of at least 9 complementary course credits from the following list:

Expand allContract all

The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate. BIOC 450 Protein Structure and Function. and BIOC 454 Nucleic Acids. are additional requirements for those who have not previously completed equivalent courses in their prior training.

Translational Biomedical Engineering (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Biomedical Engineering (Faculty of Engineering)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The M.Sc.(Applied) in Translational Biomedical Engineering; Non-Thesis is a full-time specialized 13- to 16-month professional program in translation biomedical engineering. This is an intensive program that focusses on the biomedical engineering industry through a comprehensive curriculum covering essential skills and knowledge needed to translate biomedical engineering research into clinical and commercial solutions.

The program consists of three main components that are unique to the translational process in biomedical engineering, including: 1) translational course on intellectual property, regulatory affairs, quality management systems, clinical trials and reimbursement; 2) fundamental science courses in biomedical engineering; and 3) an experiential component, comprising of a closely supervised 4-month internship in the biomedical engineering industry.

None of the courses taken in the graduate certificate in Translational Biomedical Engineering can be credited towards the M.Sc.(Applied) once the graduate certificate has been awarded.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
BMDE 653	Patents in Biomedical Engineering.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3

BMDE 656	Medical Device Development Process.	3
BMDE 657	Biomedical Engineering Industry Internship.	18

Complementary Courses (15 credits)

15 credits to be chosen listed from courses below, or other relevant 500-, 600- or 700-level courses chosen in consultation and with approval of the Program Director and the concerned offering unit/department.

General Biomedical Engineering

Expand allContract all

Course	Title	Credits
BMDE 501	Selected Topics in Biomedical Engineering.	3

Biomedical Signals and Systems

Expand allContract all

Course	Title	Credits
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3

Medical Imaging

Expand allContract all

Course	Title	Credits
BMDE 610	Functional Neuroimaging Fusion.	3
BMDE 650	Advanced Medical Imaging.	3
BMDE 660	Advanced MR Imaging and Spectroscopy of the Brain.	3
MDPH 607	Medical Imaging.	3

Biomaterials and Tissue Engineering

Expand allContract all

Course	Title	Credits
BMDE 503	Biomedical Instrumentation.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3

Rehab Engineering

Expand allContract all

Course	Title	Credits
BMDE 525D1	Design of Assistive Technologies: Principles and Praxis.	3
BMDE 525D2	Design of Assistive Technologies: Principles and Praxis.	3

Translational Biomedical Engineering (Gr. Cert.) (15 credits)

Offered by: Biomedical Engineering (Faculty of Engineering)

Program credit weight: 15

Program Description

This program comprises mandatory courses dealing with topics that are unique to the translational process in the biomedical engineering environment. Topics covered will include: managing intellectual property; patents and the patenting process; regulatory affairs; medical standards; quality management systems; and clinical trials. Complementary courses will provide students with advanced training in a specialized area of biomedical engineering selected from the areas where Departmental staff have significant expertise.

In cases where students have taken one or more of the core courses as part of another program, these core courses will be replaced with the equivalent number of credits, at the 500 level or higher, by other appropriate courses selected in consultation with the program director.

Required Courses (9 credits)

Three courses dealing with issues related specifically to the translation of biomedical engineering advances to clinical and commercial environments:

Course	Title	Credits
BMDE 653	Patents in Biomedical Engineering.	3
BMDE 654	Biomedical Regulatory Affairs - Medical Devices.	3
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3

Complementary Courses (6 credits)

Students must complete 6 credits of biomedical engineering course work selected from one or more of the following domains or other appropriate courses at the 500 level or higher approved by the Program Director:

General Biomedical Engineering

Expand allContract all

Course	Title	Credits
BMDE 501	Selected Topics in Biomedical Engineering.	3

Biomedical Signals and Systems

Expand allContract all

Course	Title	Credits
BMDE 502	BME Modelling and Identification.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 512	Finite-Element Modelling in Biomedical Engineering.	3
BMDE 519	Biomedical Signals and Systems.	3

Medical Imaging

Expand allContract all

Course	Title	Credits
BIEN 530	Imaging and Bioanalytical Instrumentation.	3
BMDE 610	Functional Neuroimaging Fusion.	3

BMDE 650	Advanced Medical Imaging.	3
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MDPH 607	Medical Imaging.	3
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Biomaterials and Tissue Engineering

Expand allContract all

Course	Title	Credits
BIEN 510	Engineered Nanomaterials for Biomedical Applications.	3
BMDE 504	Biomaterials and Bioperformance.	3
BMDE 505	Cell and Tissue Engineering.	3

Biosensors and Devices

Expand allContract all

Course	Title	Credits
BIEN 550	Biomolecular Devices.	3
BIEN 560	Design of Biosensors.	3
BMDE 503	Biomedical Instrumentation.	3
BMDE 508	Introduction to Micro and Nano-Bioengineering.	3

Translational Biomedical Engineering

Expand allContract all

Course	Title	Credits
BMDE 656	Medical Device Development Process.	3

Human Genetics (Thesis) (M.Sc.) (45 credits)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)**Degree:** Master of Science**Program credit weight:** 45

Program Description

The M.Sc. in Human Genetics is a research-intensive program that focuses on genetics and biomedical research, involving research methodology, conducting an original research project for intended scientific publication, data analysis, and writing a thesis.

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
HGEN 680	M.Sc. Thesis Research 1.	9
HGEN 681	M.Sc. Thesis Research 2.	12
HGEN 682	M.Sc. Thesis Research 3.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
HGEN 662	Laboratory Research Techniques.	3
HGEN 692	Human Genetics.	3

Complementary Courses (6 credits)

6 credits chosen from the departmental offerings below or from 500-, 600-, or 700-level courses offered in the Faculties of Medicine or Science:

Course	Title	Credits
HGEN 660	Genetics and Bioethics.	3
HGEN 661	Population Genetics.	3
HGEN 663	Beyond the Human Genome.	3
HGEN 670	Advances in Human Genetics 1.	3
HGEN 693	Using Bioinformatics Resources.	3
HGEN 696	Advanced Readings in Genetics 1.	3
HGEN 697	Advanced Readings in Genetics 2.	3
HGEN 698	Advanced Readings in Genetics 3.	3
HGEN 699	Advanced Readings in Genetics 4.	3

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

Human Genetics (Thesis): Bioinformatics (M.Sc.) (45 credits)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)**Degree:** Master of Science**Program credit weight:** 45

Program Description

This program is currently not offered.

The M.Sc. in Human Genetics; Bioethics is a graduate thesis program that focuses on the fundamental questions about life and the interventions by healthcare in research, policy, and practice. The program promotes modern research methodologies, and the knowledge and techniques needed to apply a bioethical analysis to the base discipline of human genetics.

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
HGEN 680	M.Sc. Thesis Research 1.	9
HGEN 681	M.Sc. Thesis Research 2.	12
HGEN 682	M.Sc. Thesis Research 3.	12

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits			
COMP 616D1	Bioinformatics Seminar.	1.5	HGEN 662	Laboratory Research Techniques.	3
COMP 616D2	Bioinformatics Seminar.	1.5	HGEN 692	Human Genetics.	3
HGEN 692	Human Genetics.	3			

Complementary Courses (6 credits)

6 credits from the following courses:

Course	Title	Credits			
BINF 621	Bioinformatics: Molecular Biology.	3	CMPL 642	Law and Health Care.	3
BMDE 652	Bioinformatics: Proteomics.	3	PHIL 643	Seminar: Medical Ethics.	3
BTEC 555	Structural Bioinformatics.	3	RELG 571	Ethics, Medicine and Religion.	3
PHGY 603	Systems Biology and Biophysics.	3			

Note: The Graduate Advisory Committee may stipulate additional coursework at the 500, 600, or 700 level depending on the background of the candidate.

Human Genetics (Thesis): Bioethics (M.Sc.) (45 credits)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Human Genetics; Bioethics is a graduate thesis program that focuses on the fundamental questions about life and the interventions by healthcare in research, policy, and practice. The program promotes modern research methodologies, and the knowledge and techniques needed to apply a bioethical analysis to the base discipline of human genetics.

Thesis Courses (30 credits)

30 credits selected as follows:

Course	Title	Credits			
HGEN 681	M.Sc. Thesis Research 2.	12	HGEN 600D1	Genetic Counselling Practicum.	3
HGEN 682	M.Sc. Thesis Research 3.	12	HGEN 600D2	Genetic Counselling Practicum.	3
HGEN 683	M.Sc. Thesis Research 4.	6	HGEN 601	Genetic Counselling Principles.	3

Required Courses (12 credits)

12 credits from:

Course	Title	Credits			
BIOE 680	Bioethical Theory.	3	HGEN 640	Second Year Practicum 1.	3
BIOE 681	Bioethics Practicum.	3	HGEN 641	Second Year Practicum 2.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
CMPL 642	Law and Health Care.	3
PHIL 643	Seminar: Medical Ethics.	3
RELG 571	Ethics, Medicine and Religion.	3

Genetic Counselling (Non-Thesis) (M.Sc.) (48 credits)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 48

Program Description

The M.Sc. in Genetic Counselling; Non-Thesis is a full-time professional program that focuses on the contemporary practice of genetic counselling and adapts to future developments in the dynamic field of medical genetics and genomics.

Required Courses (48 credits)

Expand allContract all

Course	Title	Credits
HGEN 600D1	Genetic Counselling Practicum.	3
HGEN 600D2	Genetic Counselling Practicum.	3
HGEN 601	Genetic Counselling Principles.	3
HGEN 610D1	Genetic Counselling: Independent Studies.	3
HGEN 610D2	Genetic Counselling: Independent Studies.	3
HGEN 617	Principles of Medical Genetics.	3
HGEN 620	Introductory Field Work Rotations 1.	3
HGEN 621	Introductory Field Work Rotations 2.	6
HGEN 630D1	Advanced Field Work Rotations.	6
HGEN 630D2	Advanced Field Work Rotations.	6
HGEN 640	Second Year Practicum 1.	3
HGEN 641	Second Year Practicum 2.	3
IPEA 503	Managing Interprofessional Conflict.	0
PATH 653	Reading and Conference.	3

Human Genetics (Ph.D.)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

Candidates entering Ph.D. 1 must complete at least three years of full-time resident study (six terms). The normal and expected duration of the Ph.D. program is four to five years. A student who has obtained a master's degree at McGill in a related field, or at an approved institution elsewhere, and is proceeding in the same subject toward a Ph.D. degree may, upon the recommendation of the Graduate Training Committee, enter at the Ph.D. 2 level.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
HGEN 692	Human Genetics.	3
HGEN 701	Ph.D. Comprehensive Examination.	0

Complementary Courses (15 credits)

(15 credits or 6 credits depending on admission status as described above.)

Courses are to be chosen from the list below and/or from among 500-, 600-, or 700-level courses offered in the Faculties of Medicine and Science.

Expand allContract all

Course	Title	Credits
HGEN 660	Genetics and Bioethics.	3
HGEN 661	Population Genetics.	3
HGEN 663	Beyond the Human Genome.	3
HGEN 693	Using Bioinformatics Resources.	3
HGEN 696	Advanced Readings in Genetics 1.	3
HGEN 697	Advanced Readings in Genetics 2.	3
HGEN 698	Advanced Readings in Genetics 3.	3
HGEN 699	Advanced Readings in Genetics 4.	3

Students are restricted to taking the following course.

Expand allContract all

Course	Title	Credits
HGEN 670	Advances in Human Genetics 1.	3

Note: The Graduate Advisory Committee may stipulate additional coursework depending on the background of the candidate.

Human Genetics: Bioinformatics (Ph.D.)

Offered by: Human Genetics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

** This program is currently not offered. **

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
HGEN 692	Human Genetics.	3
HGEN 701	Ph.D. Comprehensive Examination.	0

Complementary Courses (6 credits)

Two courses from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

Note: Students who enter in Ph.D. 1 will need to take an additional 6 credits of complementary courses chosen from the departmental offerings listed for the Ph.D. in Human Genetics and/or from among 500-, 600-, or 700-level courses in the Faculties of Medicine or Science.

Microbiology and Immunology (Thesis) (M.Sc.) (45 credits)

Offered by: Microbiology & Immunology (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
MIMM 697	Master's Research 1.	11
MIMM 698	Master's Research 2.	11
MIMM 699	Master's Research 3.	11

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MIMM 611	Graduate Seminars 1.	3
MIMM 612	Graduate Seminars 2.	3

Complementary Courses (6 credits)

Minimum 6 credits from:

Expand allContract all

Course	Title	Credits
MIMM 607	Biochemical Pathology.	3
MIMM 616	Reading and Conference 1.	3
MIMM 617	Reading and Conference 2.	3
MIMM 619	Reading and Conference 4.	3
NEUR 502	Basic and Clinical Aspects of Neuroimmunology.	3

¹ Not offered in every academic year.

Any life sciences-related 500-level or above course (3 credits).

Department approval required.

Microbiology and Immunology (Ph.D.)

Offered by: Microbiology & Immunology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The primary goal of the Ph.D. program is to create a self-propelled researcher, proficient in experimental designs and advanced methodologies applicable to the varied and rapidly changing disciplines in microbiology and immunology. Close research supervision and bi-weekly laboratory sessions impart the requisite research discipline and objective assessment of acquired or published research data.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the

thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
MIMM 611	Graduate Seminars 1.	3
MIMM 612	Graduate Seminars 2.	3
MIMM 701	Comprehensive Examination-Ph.D. Candidate.	0
MIMM 713	Graduate Seminars 3.	3

Complementary Courses (9 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MIMM 616	Reading and Conference 1.	3
MIMM 617	Reading and Conference 2.	3
MIMM 619	Reading and Conference 4.	3

OR

Any life sciences-related courses at the 500 level or higher.
Departmental approval is required.

Pharmacology (Thesis) (M.Sc.) (45 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Pharmacology focuses on research methodology, conducting a research project, analyzing data, and writing a thesis. It involves training in research professionalism, scientific communication, and statistics, critically analyzing scientific literature, and developing and conducting an original research project for scientific publication.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
PHAR 696	Thesis Preparation.	3
PHAR 697	Thesis Preparation 1.	6
PHAR 698	Thesis Preparation 2.	9
PHAR 699	Thesis Preparation 3.	12

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
PHAR 601N1	Research Seminar.	3
PHAR 601N2	Research Seminar.	3
PHAR 602	Principles of Pharmacology.	3
PHAR 609	Research Professionalism for Pharmacologists.	1
PHAR 610	Scientific Communication for Pharmacologists.	2
PHAR 712	Statistics for Pharmacologists.	3

Pharmacology (Thesis): Environmental Health Sciences (M.Sc.) (45 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Pharmacology; Environmental Health Sciences program is designed to train professionals for advanced basic research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research, including a broad environmental perspective, exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
PHAR 696	Thesis Preparation.	3
PHAR 698	Thesis Preparation 2.	9
PHAR 699	Thesis Preparation 3.	12

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
PHAR 601N1	Research Seminar.	3
PHAR 601N2	Research Seminar.	3
PHAR 602	Principles of Pharmacology.	3
PHAR 609	Research Professionalism for Pharmacologists.	1
PHAR 610	Scientific Communication for Pharmacologists.	2
PHAR 670	Principles of Environmental Health Sciences 1.	3
PHAR 671	Principles of Environmental Health Sciences 2.	3
PHAR 712	Statistics for Pharmacologists.	3

Pharmacology (Ph.D.)

Offered by: Pharmacology and Therapeutics (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Pharmacology focuses on research methodology, conducting a research project, analyzing data, and writing a thesis. It involves training in research professionalism, scientific communication, and statistics, critically analyzing scientific literature, and developing and conducting an original research project for scientific publication.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
PHAR 602	Principles of Pharmacology.	3
PHAR 609	Research Professionalism for Pharmacologists.	1
PHAR 610	Scientific Communication for Pharmacologists.	2
PHAR 701	Ph.D. Comprehensive Exam.	0
PHAR 712	Statistics for Pharmacologists.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
PHAR 702	Topics in Pharmacology 1.	3
PHAR 703	Topics in Pharmacology 2.	3
PHAR 704	Topics in Pharmacology 3.	3
PHAR 705	Topics in Pharmacology 4.	3
PHAR 706	Topics in Pharmacology 5.	3
PHAR 707	Topics in Pharmacology 6.	3

or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Pharmacology: Environmental Health Sciences (Ph.D.)

Offered by: Pharmacology and Therapeutics (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Pharmacology; Environmental Health Sciences program is designed to train professionals for advanced basic research, teaching, and leadership positions in environmental health sciences. The Option will add a distinct focus on the interplay between the environment and health research, including a broad environmental perspective, exposure sciences, hazard screening methodologies, epidemiological approaches, health implications of environmental quality, and policy approaches.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
PHAR 602	Principles of Pharmacology.	3
PHAR 609	Research Professionalism for Pharmacologists.	1
PHAR 610	Scientific Communication for Pharmacologists.	2
PHAR 670	Principles of Environmental Health Sciences 1.	3
PHAR 671	Principles of Environmental Health Sciences 2.	3
PHAR 701	Ph.D. Comprehensive Exam.	0
PHAR 712	Statistics for Pharmacologists.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
PHAR 702	Topics in Pharmacology 1.	3
PHAR 703	Topics in Pharmacology 2.	3
PHAR 704	Topics in Pharmacology 3.	3
PHAR 705	Topics in Pharmacology 4.	3
PHAR 706	Topics in Pharmacology 5.	3
PHAR 707	Topics in Pharmacology 6.	3

or the equivalent, upon approval by the Graduate Training Committee (GTC.)

Biomedical Science Translational Research (Gr. Cert.) (15 credits)

Offered by: Pharmacology and Therapeutics (Faculty of Medicine and Health Sciences)

Program credit weight: 15

Program Description

The Graduate Certificate in Biomedical Science Translational Research is an introduction to relevant clinical aspects of translating scientific discovery as a means of bridging the gap between research and application in clinical settings, while promoting future collaboration among scientists, clinicians and clinician-scientists while promoting future collaboration. The program includes clinical mentorship.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
FMED 525	Foundations of Translational Science.	3
PHAR 522D1	Fundamentals of Disease Therapy.	3
PHAR 522D2	Fundamentals of Disease Therapy.	3
PHAR 524	Clinical Mentorship.	3

Complementary Courses (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3
EPIB 507	Biostats for Health Sciences.	3
EXMD 617	Workshop in Clinical Trials 1.	1
EXMD 618	Workshop in Clinical Trials 2.	1
EXMD 619	Workshop in Clinical Trials 3.	1
EXMD 620	Clinical Trials and Research 1.	1
EXMD 633	Clinical Aspects of Research in Respiratory Diseases.	3
EXMD 640	Experimental Medicine Topic 1.	3
PHAR 508	Drug Discovery and Development 3.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Physiology (Thesis) (M.Sc.) (45 credits)

Offered by: Physiology (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
PHGY 621	Thesis 1.	12
PHGY 622	Thesis 2.	12
PHGY 623	M.Sc. Final Seminar.	3

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
PHGY 601	M.Sc. Proposal Seminar.	1
PHGY 602	Literature Search and Research Proposal.	2
PHGY 604	Responsible Conduct in Research.	0
PHGY 607	Laboratory Research 1.	3
PHGY 608	Laboratory Research 2.	3
PHGY 620	Progress in Research.	3

Elective Courses (6 credits)

Students must select 6 approved credits in Physiology or Science at the 500 level or above.

Physiology (Thesis): Bioinformatics (M.Sc.) (45 credits)

Offered by: Physiology (Faculty of Medicine and Health Sciences)**Degree:** Master of Science**Program credit weight:** 45

Program Description

** This program is currently not offered. **

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
PHGY 621	Thesis 1.	12
PHGY 622	Thesis 2.	12
PHGY 623	M.Sc. Final Seminar.	3

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PHGY 601	M.Sc. Proposal Seminar.	1
PHGY 602	Literature Search and Research Proposal.	2
PHGY 604	Responsible Conduct in Research.	0
PHGY 607	Laboratory Research 1.	3
PHGY 608	Laboratory Research 2.	3

3 credits from the following:

Expand allContract all

Complementary Courses (6 credits)

6 credits to be chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3

Physiology (Thesis): Chemical Biology (M.Sc.) (45 credits)

Offered by: Physiology (Faculty of Medicine and Health Sciences)**Degree:** Master of Science**Program credit weight:** 45

Program Description

** This program is currently not offered. **

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
PHGY 621	Thesis 1.	12
PHGY 622	Thesis 2.	12
PHGY 623	M.Sc. Final Seminar.	3

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
BIOC 610	Seminars in Chemical Biology 1.	1.5
BIOC 611	Seminars in Chemical Biology 2	1.5
PHGY 601	M.Sc. Proposal Seminar.	1
PHGY 602	Literature Search and Research Proposal.	2
PHGY 604	Responsible Conduct in Research.	0
PHGY 607	Laboratory Research 1.	3
PHGY 608	Laboratory Research 2.	3
PHGY 620	Progress in Research.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits	
CHEM 502	Advanced Bio-Organic Chemistry.	3	familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.
CHEM 503	Drug Discovery.	3	
PHAR 503	Drug Discovery and Development 1.	3	

Physiology (Ph.D.)

Offered by: Physiology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (8 credits)

Expand allContract all

Course	Title	Credits
PHGY 604	Responsible Conduct in Research.	0
PHGY 701	Ph.D. Comprehensive Examination.	0
PHGY 703	Ph.D. Progress Seminar 1.	1
PHGY 704	Ph.D. Progress Seminar 2.	1
PHGY 720	Ph.D. Seminar Course 1.	1
PHGY 721	Ph.D. Seminar Course 2.	1
PHGY 722	Ph.D. Seminar Course 3.	1
PHGY 723	Ph.D. Seminar Course 4.	1
PHGY 724	Ph.D. Seminar Course 5.	1
PHGY 725	Ph.D. Seminar Course 6.	1

Elective Courses (9 credits)

9 credits of Physiology or Science at the 500 level or above, in consultation with the GSAAC and the candidate's supervisor.

Physiology: Bioinformatics (Ph.D.)

Offered by: Physiology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

** This program is currently not offered. **

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show

familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (11 credits)

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
PHGY 604	Responsible Conduct in Research.	0
PHGY 701	Ph.D. Comprehensive Examination.	0
PHGY 703	Ph.D. Progress Seminar 1.	1
PHGY 704	Ph.D. Progress Seminar 2.	1
PHGY 720	Ph.D. Seminar Course 1.	1
PHGY 721	Ph.D. Seminar Course 2.	1
PHGY 722	Ph.D. Seminar Course 3.	1
PHGY 723	Ph.D. Seminar Course 4.	1
PHGY 724	Ph.D. Seminar Course 5.	1
PHGY 725	Ph.D. Seminar Course 6.	1

Complementary Courses (6 credits)

6 credits to be chosen from the following courses:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3

Physiology: Chemical Biology (Ph.D.)

Offered by: Physiology (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

** This program is currently not offered. **

The Graduate Option in Chemical Biology is centered on the pursuit of an original research project under the direction of one or more program mentors. This research training is augmented by student participation in lecture and seminar courses and in a series of thematic workshops, all of which are designed to expose students to the diverse approaches and research issues that characterize the current state of the field. Students with training in this interdisciplinary approach will be highly qualified to seek careers in academic research as well as the pharmaceutical and biotechnology industries.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
BIOC 610	Seminars in Chemical Biology 1.	1.5
BIOC 611	Seminars in Chemical Biology 2	1.5
PHGY 604	Responsible Conduct in Research.	0
PHGY 701	Ph.D. Comprehensive Examination.	0
PHGY 703	Ph.D. Progress Seminar 1.	1
PHGY 704	Ph.D. Progress Seminar 2.	1
PHGY 720	Ph.D. Seminar Course 1.	1
PHGY 721	Ph.D. Seminar Course 2.	1
PHGY 722	Ph.D. Seminar Course 3.	1
PHGY 723	Ph.D. Seminar Course 4.	1
PHGY 724	Ph.D. Seminar Course 5.	1

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
CHEM 502	Advanced Bio-Organic Chemistry.	3
CHEM 503	Drug Discovery.	3
PHAR 503	Drug Discovery and Development 1.	3

Communication Sciences and Disorders (Thesis) (M.Sc.) (45 credits)

Offered by: Commun Sciences & Disorders (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
SCSD 671	M.Sc. Thesis 1.	12
SCSD 672	M.Sc. Thesis 2.	12

Complementary Courses (21 credits)

6-21 credits chosen from:

Expand allContract all

Course	Title	Credits
SCSD 675	Special Topics 1.	12
SCSD 676	Special Topics 2.	9
SCSD 677	Special Topics 3.	6
SCSD 678	Special Topics 4.	3

0-15 credits chosen from:

Expand allContract all

Course	Title	Credits
SCSD 673	M.Sc. Thesis 3.	12
SCSD 674	M.Sc. Thesis 4.	3

or courses in other departments, as arranged with the student's thesis supervisor.

Communication Sciences & Disorders (Non-Thesis): Speech-Language Pathology (M.Sc.A.) (82 credits)

Offered by: Commun Sciences & Disorders (Faculty of Medicine & Health Sciences)

Degree: Master of Science Applied

Program credit weight: 82

Program Description

The M.Sc.(A.) in Communication Sciences and Disorders; Non-Thesis

- Speech-Language Pathology focuses on training students to enter the field of Speech-Language Pathology using a curriculum guided by a competency-based framework, including academic and supervised clinical practicum components. This professional program is accredited by The Council for Accreditation of Canadian University Programs in Audiology and Speech-Language Pathology.

Required Courses (82 credits)

Expand allContract all

Course	Title	Credits
IPEA 500	Roles in Interprofessional Teams.	0
IPEA 501	Communication in Interprofessional Teams.	0
IPEA 502	Partnership in Interprofessional Teams	0
SCSD 609	Neuromotor Disorders.	3
SCSD 611D1	Essential Competencies for Speech-Language Pathology 1.	0.5
SCSD 611D2	Essential Competencies for Speech-Language Pathology 1.	0.5
SCSD 612D1	Essential Competencies for Speech-Language Pathology 2.	0.5

SCSD 612D2	Essential Competencies for Speech-Language Pathology 2.	0.5	Students who have completed a Master's degree with research thesis in Communication Sciences and Disorders or a related area are admitted at level PhD 2. High-caliber students who have not completed a research thesis at the Master's level can enter the Qualifying Year Program (admitted at level PhD 1), which includes extra requirements (coursework and a research project) at the onset of the program.		
SCSD 613	Counselling in Speech-Language Pathology.	1			
SCSD 614	Literacy Across the Lifespan.	3			
SCSD 616	Foundations of Audiology.	3			
SCSD 617	Anatomy and Physiology for Speech-Language Pathology.	1			
SCSD 619	Phonological Development.	3			
SCSD 624	Language Development and Processes.	3			
SCSD 625	ASD and Neurodevelopmental Disorders 2.	2			
SCSD 626	Aural Rehabilitation 2.	2			
SCSD 627	Practicum and Seminar 3A.	3			
SCSD 628	Practicum and Seminar 4A.	3			
SCSD 629	Augmentative and Alternative Communication 2.	2			
SCSD 630	Research and Measurement Methodologies 2.	2			
SCSD 631	Speech Science.	2			
SCSD 632	Phonological Disorders: Children.	3			
SCSD 636	Fluency Disorders.	3	Expand allContract all		
SCSD 637	Developmental Language Disorders 1.	3	Course	Title	Credits
SCSD 638	Neurolinguistics.	2	SCSD 652	Advanced Research Seminar 1.	3
SCSD 639	Voice Disorders.	3	SCSD 653	Advanced Research Seminar 2.	3
SCSD 643	Developmental Language Disorders 2.	3	SCSD 701	Doctoral Comprehensive.	0
SCSD 644	Acquired Language Disorders.	3			
SCSD 646	Introductory Clinical Practicum.	4			
SCSD 679	Advanced Clinical Practicum.	12			
SCSD 680	Deglutition and Dysphagia.	3			
SCSD 681	Practicum and Seminar 1.	3			
SCSD 682	Practicum and Seminar 2.	3			
SCSD 688	Genetics in Speech-Language Pathology Practice.	1			
SCSD 689	Management Cranio-Facial Disorders.	1			

Communication Sciences and Disorders (Ph.D.)

Offered by: Commun Sciences & Disorders (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. program provides a foundation for creative research and scientific problem-solving in communication sciences (speech, language, hearing, voice) in typical and atypical populations. The program structure is flexible to encourage students to customize their program through the selection of coursework, seminars, comprehensive topics, research experiences, and thesis topic. The School's doctoral program follows a mentor model and students work closely with faculty supervisors who have international reputations in their respective areas.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

For both PhD 1 and PhD 2:

Course	Title	Credits
SCSD 652	Advanced Research Seminar 1.	3
SCSD 653	Advanced Research Seminar 2.	3
SCSD 701	Doctoral Comprehensive.	0

Complementary Courses (6 or 21 credits)

For both PhD 1 and PhD 2: 6 credits of statistics courses at the 500 level or higher, pre-approved by the supervisor and the graduate program director.

In addition to the above, students entering at PhD 1 must take the following 15 credits:

Course	Title	Credits
SCSD 654	Advanced Research Seminar 3.	3
SCSD 685	Research Project 1.	3
SCSD 686	Research Project 2.	3

Plus 6 credits, of graduate-level courses, pre-approved by the supervisor and the graduate program director.

Communication Sciences and Disorders: Language Acquisition (Ph.D.)

Offered by: Commun Sciences & Disorders (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Requirements

This unique interdisciplinary program focuses on the scientific exploration of language acquisition by different kinds of learners in diverse contexts. Students in the Language Acquisition Program are introduced to theoretical and methodological issues on language acquisition from the perspectives of cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology.

For details go to: www.psych.mcgill.ca/lap.html.

Students who have completed a Master's degree with research thesis in Communication Sciences and Disorders or a related area are admitted at level PhD 2. High-caliber students who have not completed a research thesis at the Master's level can enter the Qualifying Year Program (admitted at level PhD 1), which includes extra requirements (coursework and a research project) at the onset of the program.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

For both PhD 1 and PhD 2:

Expand allContract all

Course	Title	Credits
LING 710	Language Acquisition Issues 2.	2
PSYC 709	Language Acquisition Issues 1.	2
SCSD 652	Advanced Research Seminar 1.	3
SCSD 653	Advanced Research Seminar 2.	3
SCSD 701	Doctoral Comprehensive.	0
SCSD 712	Language Acquisition Issues 4.	2

Complementary Courses (9 or 26 credits)

For both PhD 1 and PhD 2:

- 6 credits of statistics courses at the 500 level or higher, pre-approved by the supervisor and the graduate program director.
- At least 3 credits at the 500 level or higher in language acquisition courses that have been approved by the Director of the Language Acquisition Program. For a pre-approved list go to: <https://www.mcgill.ca/scsd/programs/rt/phd/language-acquisition-courses>.

For PhD 1 students, 0-2 credits from the following:

Expand allContract all

Course	Title	Credits
EDPE 713	Language Acquisition Issues 5.	2
EDSL 711	Language Acquisition Issues 3.	2

In addition to the above, students entering at PhD 1 must take the following 15 credits:

Expand allContract all

Course	Title	Credits
SCSD 654	Advanced Research Seminar 3.	3
SCSD 685	Research Project 1.	3
SCSD 686	Research Project 2.	3

Plus 6 credits, of graduate-level courses pre-approved by the supervisor and the graduate program director.

Epidemiology (Thesis) (M.Sc.) (45 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

Students will study the foundations and principles of epidemiology and applied biostatistics, in order to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological health-related research. Graduates will be prepared to engage in scientific collaboration, and communicate results to other scientists and diverse audiences.

Thesis Course (21 credits)

Expand allContract all

Course	Title	Credits
EPIB 690	M.Sc. Thesis.	21

Required Courses (21 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

Expand allContract all

Course	Title	Credits
EPIB 601	Fundamentals of Epidemiology.	4
EPIB 603	Intermediate Epidemiology.	4
EPIB 605	Critical Appraisal in Epidemiology.	1
EPIB 607	Inferential Statistics.	4
EPIB 613	Introduction to Statistical Software.	1
EPIB 621	Data Analysis in Health Sciences.	4
PPHS 602	Foundations of Population Health.	3

Complementary Course (3 credits)

3 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

Epidemiology (Non-Thesis): Pharmacoepidemiology (M.Sc.) (48 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 48

Program Description

This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will develop knowledge and capacity to critically evaluate pharmacoepidemiologic studies, learn how to apply specific methods and understand how to apply research results for knowledge translation or policy purpose. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Research (12 credits)

Expand allContract all

Course	Title	Credits
EPIB 691	Research Project in Epidemiology.	12

Required Courses (25 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits at the 500 level or higher.

Expand allContract all

Course	Title	Credits
EPIB 601	Fundamentals of Epidemiology.	4
EPIB 603	Intermediate Epidemiology.	4
EPIB 605	Critical Appraisal in Epidemiology.	1
EPIB 607	Inferential Statistics.	4
EPIB 613	Introduction to Statistical Software.	1
EPIB 621	Data Analysis in Health Sciences.	4
EPIB 634	Fundamentals of Pharmacoepidemiology.	3
EPIB 662	Pharmacological Basis of Pharmacoepidemiology.	1
PPHS 602	Foundations of Population Health.	3

Complementary Courses (11 credits)

11 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Courses must be approved by the program's academic adviser.

Epidemiology (Non-Thesis): Environmental & Occupational Health (M.Sc.) (48 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 48

Program Description

This program provides in-depth training for graduate students in methods used in Environmental and Occupational Health (EOH) and the application of these methods to study the effects of environmental and occupational exposures on human health. Students will be provided with tools to critically evaluate studies in EOH, as well as to be able to participate in these studies, learn how to apply specific methods to environmental and occupational problems, and understand how to apply research results to public health or policy. Career opportunities exist in academia, industry, and the public health sectors. Each student will be assigned a supervisor to provide guidance for their project. Research topics must be related to environmental and occupational health and approved by the program coordinating committee.

Research (12 credits)

Expand allContract all

Course	Title	Credits
EPIB 691	Research Project in Epidemiology.	12

Required Courses (30 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

Expand allContract all

Course	Title	Credits
EPIB 601	Fundamentals of Epidemiology.	4
EPIB 603	Intermediate Epidemiology.	4
EPIB 605	Critical Appraisal in Epidemiology.	1
EPIB 607	Inferential Statistics.	4
EPIB 613	Introduction to Statistical Software.	1
EPIB 621	Data Analysis in Health Sciences.	4
EPIB 634	Fundamentals of Pharmacoepidemiology.	3
EPIB 662	Pharmacological Basis of Pharmacoepidemiology.	1
PPHS 684	Principles of Environmental Health Sciences 1.	3
PPHS 685	Principles of Environmental Health Sciences 2.	3
PPHS 686	Environmental Health Seminar.	3
PPHS 602	Foundations of Population Health.	3

Complementary Courses (6 credits)

6 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor. Complementary courses are meant to further the student's general knowledge in environment, environmental health, methodologies, and related aspects to a student's project.

Public Health (Non-Thesis) (M.Sc.) (60 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 60

Program Description

The M.Sc. in Public Health; Non-Thesis focuses on the foundations and principles of epidemiology and biostatistics as applied to public health research and practice, and to design, conduct, and analyze clinical, population-based, environmental, policy, and methodological public health-related research. The program will include a practicum during the summer term after the first year.

Required Courses (36 Credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

Expand allContract all

Course	Title	Credits
EPIB 601	Fundamentals of Epidemiology.	4
EPIB 603	Intermediate Epidemiology.	4
EPIB 605	Critical Appraisal in Epidemiology.	1
EPIB 607	Inferential Statistics.	4
EPIB 613	Introduction to Statistical Software.	1
EPIB 621	Data Analysis in Health Sciences.	4
PPHS 602	Foundations of Population Health.	3
PPHS 612	Principles of Public Health Practice.	3
PPHS 630	MScPH Practicum/Project.	12

Complementary Courses (9 Credits)

Environmental Health Sciences

3 credits from:

Expand allContract all

Course	Title	Credits
GEOG 503	Advanced Topics in Health Geography.	3
OCCH 602	Occupational Health Practice.	3
OCCH 604	Monitoring Occupational Environment.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3

Or other course, at the 500 level or higher, selected with the Program's Academic Advisor.

Health Services Research Policy and Management

3 credits from:

Expand allContract all

Course	Title	Credits
PPHS 525	Health Care Systems in Comparative Perspective.	3
PPHS 527	Economics for Health Services Research and Policy.	3
PPHS 528	Economic Evaluation of Health Programs.	3
PPHS 617	Impact Evaluation.	3

Or other course, at the 500 level or higher, selected with the Program's Academic Advisor.

Population and Public Health Interventions (social and behavioural science)

3 credits from:

Expand allContract all

Course	Title	Credits
EPIB 632	Mental Disorders: Population Perspectives and Methods.	3
PPHS 614	Knowledge Translation and Public Health Leadership .	3
PPHS 616	Principles and Practice of Public Health Surveillance.	3
PPHS 618	Program Planning and Evaluation in Public Health .	3

Or other course, at the 500 level or higher, selected with the Program's Academic Advisor.

Elective Courses (15 Credits)

15 credits of coursework, at the 500 level or higher. Students may choose to focus on more advanced methods in epidemiology, biostatistics, geography, or substantive areas such as environmental or occupational health, or to select a variety of courses that will deepen their general knowledge of the disciplines that influence population and public health.

Courses will be selected with and approved by the Program's Academic Advisor.

Courses may not satisfy more than one program requirement.

Epidemiology (Ph.D.)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

Epidemiology is the study and analysis of the patterns and causes of disease in human populations. It forms the core discipline of

public health by identifying excess illness and by gaining the etiologic understanding to intervene toward the improvement of population health. The PhD program in epidemiology at McGill trains scientists and health professionals to design and conduct studies, analyze health data and effectively communicate scientific results, and to gain novel insights into the causes and prevention of diseases at the population level. Epidemiologic work at the doctoral level involves a thorough integration of biological knowledge of pathogenesis, statistical knowledge of quantitative analysis and causal inference, and sociological knowledge to place these insights in the context of dynamic and interconnected human populations. Major areas of strength at McGill include epidemiologic methods, clinical epidemiology, infectious diseases, social epidemiology, pharmacoepidemiology, public and population health, global health, environmental epidemiology, chronic diseases and aging, and perinatal epidemiology.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (17 credits)

Expand allContract all

Course	Title	Credits
EPIB 701	Ph.D. Comprehensive Examination.	0
EPIB 702	Ph.D. Proposal.	0
EPIB 703	Principles of Study Design.	3
EPIB 704	Doctoral Level Epidemiologic Methods 1.	4
EPIB 705	Doctoral Level Epidemiologic Methods 2.	4
EPIB 706	Doctoral Seminar in Epidemiology.	3
EPIB 707	Research Design in Health Sciences.	3

Complementary Courses (9 credits)

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics and 6 credits in epidemiology and/or substantive topic (normally related to the thesis topic). Courses must be chosen in consultation with the student's supervisor and/or the program director or advisor.

Epidemiology: Global Health (Ph.D.)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

This option will provide enhanced training in global health to graduate students registered in the Ph.D. in Epidemiology; Global Health degree program at McGill. Students will become familiar with topics of global health relevance and incorporate this into their core coursework and thesis research. The thesis must be relevant to global health and approved by the Global Health Coordinating Committee. Contextualizing the core training students receive in epidemiology and in their respective substantive discipline within the global health research domain will enhance their academic experience. Graduates of this option will be prepared to pursue further training in global health or to undertake a variety of career opportunities in global health in Canada or internationally.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
EPIB 681	Global Health: Epidemiological Research.	3
EPIB 701	Ph.D. Comprehensive Examination.	0
EPIB 702	Ph.D. Proposal.	0
EPIB 703	Principles of Study Design.	3
EPIB 704	Doctoral Level Epidemiologic Methods 1.	4
EPIB 705	Doctoral Level Epidemiologic Methods 2.	4
EPIB 706	Doctoral Seminar in Epidemiology.	3
EPIB 707	Research Design in Health Sciences.	3
PPHS 511	Fundamentals of Global Health.	3

Complementary Courses (9 credits)

6 credits of coursework at the 500 level or higher, with a minimum of 3 credits in biostatistics, and 3 credits in epidemiology. Courses must be chosen in consultation with the student's supervisor and/or the program director or advisor.

3 credits of coursework at the 500 level or higher from this list, or any other course approved by the Global Health Option Committee that have not been taken to satisfy other program requirements.

Expand allContract all

Course	Title	Credits
GEOG 503	Advanced Topics in Health Geography.	3
NUTR 501	Nutrition in the Majority World.	3

PPHS 525	Health Care Systems in Comparative Perspective.	3	EPIB 706	Doctoral Seminar in Epidemiology.	3
PPHS 527	Economics for Health Services Research and Policy.	3	EPIB 707	Research Design in Health Sciences.	3
PPHS 529	Global Environmental Health and Burden of Disease.	3			
SOCI 519	Gender and Globalization.	3			
SOCI 545	Sociology of Population.	3			

Epidemiology: Pharmacoepidemiology (Ph.D.)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

This program provides in-depth training for graduate students on pharmacoepidemiologic methods and the application of these methods to study the population effects (benefits and harm) of pharmaceutical products. Students will acquire the skills to become independent investigators and conduct original research in pharmacoepidemiology. Career opportunities for graduates are multiple and include work in industry, government, or academia. Students will be required to participate in the Pharmacoepidemiology Journal Club. Research topics must be related to pharmacoepidemiology and approved by the program coordinating committee.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (26 credits)

Expand allContract all

Course	Title	Credits
EPIB 639	Pharmacoepidemiologic Methods.	4
EPIB 654	Pharmacoepidemiology 4.	2
EPIB 661	Pharmacoepidemiology 3.	2
EPIB 662	Pharmacological Basis of Pharmacoepidemiology.	1
EPIB 701	Ph.D. Comprehensive Examination.	0
EPIB 702	Ph.D. Proposal.	0
EPIB 703	Principles of Study Design.	3
EPIB 704	Doctoral Level Epidemiologic Methods 1.	4
EPIB 705	Doctoral Level Epidemiologic Methods 2.	4
EPIB 706	Doctoral Seminar in Epidemiology.	3
EPIB 707	Research Design in Health Sciences.	3
SOCI 545	Sociology of Population.	3
SOCI 626	Demographic Methods.	3

Complementary Courses (3 credits)

3 credits of coursework in biostatistics at the 500 level or higher. Courses must be chosen in consultation with the student's supervisor and/or the program director or advisor.

Epidemiology: Population Dynamics (Ph.D.)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Epidemiology; Population Dynamics program focuses on training in demographic methods (including life table analyses) and critical population dynamic issues such as population health, migration, aging, family dynamics, and labour markets.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
EPIB 701	Ph.D. Comprehensive Examination.	0
EPIB 702	Ph.D. Proposal.	0
EPIB 703	Principles of Study Design.	3
EPIB 704	Doctoral Level Epidemiologic Methods 1.	4
EPIB 705	Doctoral Level Epidemiologic Methods 2.	4
EPIB 706	Doctoral Seminar in Epidemiology.	3
EPIB 707	Research Design in Health Sciences.	3
SOCI 545	Sociology of Population.	3
SOCI 626	Demographic Methods.	3

Complementary Courses (9 credits)

9 credits of coursework, at the 500 level or higher, with a minimum of 3 credits in biostatistics, 3 credits in epidemiology, and 3 credits from courses approved for the Population Dynamics Option from the list below:

[Expand all](#)[Contract all](#)

Course	Title	Credits	Course	Title	Credits
ECON 634	Economic Development 3.	3	BIOS 601	Epidemiology: Introduction and Statistical Models.	4
ECON 641	Labour Economics.	3	BIOS 602	Epidemiology: Regression Models.	4
ECON 734	Economic Development 4.	3	MATH 523	Generalized Linear Models.	4
ECON 741	Advanced Labour Economics.	3	MATH 533	Regression and Analysis of Variance.	4
ECON 742	Empirical Microeconomics.	3	MATH 556	Mathematical Statistics 1.	4
ECON 744	Health Economics.	3	MATH 557	Mathematical Statistics 2.	4
EPIB 648	Methods in Social Epidemiology.	3			
EPIB 681	Global Health: Epidemiological Research.	3			
PPHS 525	Health Care Systems in Comparative Perspective.	3			
PPHS 528	Economic Evaluation of Health Programs.	3			
PPHS 529	Global Environmental Health and Burden of Disease.	3			
PPHS 615	Introduction to Infectious Disease Epidemiology.	3			
SOCI 502	Sociology of Childbearing	3			
SOCI 520	Migration and Immigrant Groups.	3			
SOCI 525	Health Care Systems in Comparative Perspective.	3			
SOCI 535	Sociology of the Family.	3			
SOCI 588	Biosociology/Biodemography.	3			

Courses must be chosen in consultation with the student's supervisor and/or the program director or advisor.

Biostatistics (Thesis) (M.Sc.) (45 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

Training in statistical theory and methods, applied data analysis, scientific collaboration, communication, and report writing by coursework and thesis.

Thesis Courses (21 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOS 690	M.Sc. Thesis.	21

Required Courses (24 credits)

Students exempted from any of the courses listed below must replace them with complementary course credits, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

[Expand all](#)[Contract all](#)

Biostatistics (Non-Thesis) (M.Sc.) (48 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Master of Science

Program credit weight: 48

Program Description

Training in statistical theory and methods, applied data analysis, scientific collaboration, communication, and report writing by coursework and project.

Research Project (6 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOS 630	Research Project/Practicum in Biostatistics.	6

Required Courses (24 credits)

Students exempted from any of the courses listed below must replace them with additional complementary course credits.

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOS 601	Epidemiology: Introduction and Statistical Models.	4
BIOS 602	Epidemiology: Regression Models.	4
MATH 523	Generalized Linear Models.	4
MATH 533	Regression and Analysis of Variance.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4

Complementary Courses (18 credits)

18 credits of coursework, at the 500 level or higher, chosen in consultation with the student's academic adviser or supervisor.

Biostatistics (Ph.D.)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

Students will study theoretical and applied statistics and related fields; the program will train them to become independent scientists able to develop and apply statistical methods in medicine and biology and make original contributions to the theoretical and scientific foundations of statistics in these disciplines. Graduates will be prepared to develop new statistical methods as needed and apply new and existing methods in a range of collaborative projects. Graduates will be able to communicate methods and results to collaborators and other audiences, and teach biostatistics to biostatistics students, students in related fields, and professionals in academic and other settings.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
BIOS 701	Ph.D. Comprehensive Examination.	0
BIOS 702	Ph.D. Proposal.	0

Complementary Courses (18-46 credits)

0-28 credits from the following list: (if a student has not already successfully completed them or their equivalent)

Expand allContract all

Course	Title	Credits
BIOS 601	Epidemiology: Introduction and Statistical Models.	4
BIOS 602	Epidemiology: Regression Models.	4
BIOS 624	Data Analysis and Report Writing.	4
MATH 523	Generalized Linear Models.	4
MATH 533	Regression and Analysis of Variance.	4
MATH 556	Mathematical Statistics 1.	4
MATH 557	Mathematical Statistics 2.	4

12 credits (chosen and approved in consultation with the student's academic adviser), at the 500 level or higher, in statistics/biostatistics.

6 credits (chosen and approved in consultation with the student's academic adviser), at the 500 level or higher, in related fields (e.g., epidemiology, social sciences, biomedical sciences).

Occupational Health (Non-Thesis) (Resident) (M.Sc.A.) (46 credits)

Offered by: Occupational Health (Faculty of Medicine & Health Sciences)

Degree: Master of Science Applied

Program credit weight: 46

Program Description

A three-term program leading to the degree of Master of Science(Applied) [M.Sc.(A.)] in Occupational Health; Non-Thesis, appropriate for graduates from engineering and basic sciences, physicians, and nurses. Occupational health training includes evaluation of work environments and reduction or elimination of work hazards using prevention and control.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
OCCH 699	Project Occupational Health and Safety.	15

Required Courses (31 credits)

Expand allContract all

Course	Title	Credits
EPIB 507	Biostats for Health Sciences.	3
EPIB 601	Fundamentals of Epidemiology.	4
OCCH 602	Occupational Health Practice.	3
OCCH 604	Monitoring Occupational Environment.	3
OCCH 605	Physical Health Hazards.	6
OCCH 608	Biological Hazards.	3
OCCH 612	Principles of Toxicology.	3
OCCH 615	Occupational Safety Practice.	3
OCCH 616	Occupational Hygiene.	3

Occupational Health (Non-Thesis) (Distance) (M.Sc.A.) (45 credits)

Offered by: Occupational Health (Faculty of Medicine & Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

This program is currently not accepting applicants.

Research Project (15 credits)

Expand allContract all

Course	Title	Credits
OCCH 699	Project Occupational Health and Safety.	15

Required Courses (30 credits)

Note: Students must pass the Master's Integrative Examination (OCCH 600 Master's Integrative Exam.) before writing their Project.

Each course has a final (proctored) examination at the end of the term.

Expand allContract all

Course	Title	Credits
OCCH 600	Master's Integrative Exam.	0
OCCH 602	Occupational Health Practice.	3
OCCH 603	Work and Environment Epidemiology 1.	3
OCCH 604	Monitoring Occupational Environment.	3
OCCH 608	Biological Hazards.	3
OCCH 612	Principles of Toxicology.	3
OCCH 615	Occupational Safety Practice.	3
OCCH 616	Occupational Hygiene.	3
OCCH 617	Occupational Diseases.	3
OCCH 624	Social and Behavioural Aspects - Occupational Health.	3
OCCH 625	Work and Environment Epidemiology 2.	3
OCCH 626	Basics: Physical Health Hazards.	3
OCCH 627	Work Physiology and Ergonomics.	3
OCCH 630	Occupational Diseases for OHNS.	3
OCCH 635	Environmental Risks to Health.	3

On-campus practicum may be held at the discretion of each professor. These sessions are held in Montreal on the McGill University campus. Their aim is to offer students additional specific learning activities. Participation in the practicum is an essential component of the program.

Occupational Health (Ph.D.)

Offered by: Occupational Health (Faculty of Medicine & Health Sciences)

Degree: Doctor of Philosophy

Program Description

This program is currently not accepting applicants.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (2 credits)

Expand allContract all

Course	Title	Credits
OCCH 700	Ph.D. Comprehensive Examination.	0
OCCH 706	Ph.D. Seminar on Occupational Health and Hygiene.	2

Students are encouraged to take up to 12 credits in areas pertinent to their specialty or in areas necessary to complete their knowledge of occupational health.

Health Data Analytics 1 (Gr. Cert.) (15 credits)

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Health Sciences)

Program credit weight: 15

Program Description

The Graduate Certificate in Health Data Analytics 1 is an online program that offers strong statistical and computational training to solve emerging problems in public health and the biomedical sciences. This training focuses on the skills needed to clean, manage and analyze data sets, and to interpret and report findings in a reproducible, effective, and accessible manner.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
BIOS 640	Introduction to Health Data Science Methods	3
BIOS 641	Health Data Analysis: Essential Theory	3
BIOS 642	Health Data: Statistical Learning and Model Visualization	3
BIOS 643	Theory to Practice: Analysis and Reporting	3
BIOS 644	Health Data Analytics Capstone Project 1	3

Interdisciplinary Cancer Sciences (Ph.D.)

Offered by: Interdepartmental Studies (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Interdisciplinary Cancer Sciences focuses on cancer as a disease and the breadth of cancer research across disciplines. This program includes a solid foundation in fundamental aspects of cancer biology, "omics" analyses, treatments, and patient care.

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
CANC 621D1	Seminars in Cancer Sciences.	2
CANC 621D2	Seminars in Cancer Sciences.	2
CANC 701	Ph.D. Comprehensive Examination.	0

Complementary Courses (10 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
EXMD 635D1	Experimental/Clinical Oncology. ¹	3
EXMD 635D2	Experimental/Clinical Oncology. ¹	3
ONCO 610D1	Fundamentals of Oncology and Cancer Research.	3
ONCO 610D2	Fundamentals of Oncology and Cancer Research.	3

¹ Choose either EXMD 635D1/D2 or ONCO 610D1/D2.

4 credits from the following:

Expand allContract all

Course	Title	Credits
BIOC 600	Advanced Strategies in Genetics and Genomics.	3
BIOC 603	Genomics and Gene Expression.	3
BIOC 605	Protein Biology and Proteomics.	3
BMDE 507	Formulation and Delivery of Biotherapeutics.	3
BMDE 653	Patents in Biomedical Engineering.	3
BMDE 655	Biomedical Clinical Trials - Medical Devices.	3
CANC 601	Patient Engagement in Cancer Research.	1
CANC 602	Epidemiology in Cancer .	1
CANC 603	Mouse Models in Cancer .	1
CANC 604	Cancer Genomics Data Analyses .	1
CANC 605	Cancer Caregiving: Psychosocial Issues.	1
CANC 606	Tumour Microenvironment.	1
CANC 607	Cancer Immunotherapies.	1
CANC 608	Oncometabolism .	1
EPIB 507	Biostats for Health Sciences.	3
EPIB 521	Regression Analysis for Health Sciences.	3
EPIB 635	Clinical Trials.	3
EPIB 671	Cancer Epidemiology and Prevention.	3
EXMD 504	Biology of Cancer.	3
EXMD 602	Techniques in Molecular Genetics.	3
EXMD 607	Molecular Control of Cell Growth.	3
EXMD 608	Molecular Embryology.	3
EXMD 614	Environmental Carcinogenesis.	3
EXMD 617	Workshop in Clinical Trials 1.	1
EXMD 618	Workshop in Clinical Trials 2.	1
EXMD 619	Workshop in Clinical Trials 3.	1
EXMD 647	Epigenetics and Cancer.	3
EXSU 500	Artificial Intelligence in Medicine .	3
EXSU 606	Statistics for Surgical Research.	3

HGEN 676	Lab Course in Genomics.	3
HGEN 677	Statistical Concepts in Genetic and Genomic Analysis.	3
HGEN 679	Cancer Genetics: Precision Oncology.	3
HGEN 693	Using Bioinformatics Resources.	3
NUR2 515	Applied Statistics for Nursing.	3
NUR2 783	Psychosocial Oncology Research.	3
ONCO 611	Proteomics for Precision Medicine.	3
ONCO 615	Principles and Practice of Clinical Trials.	3
ONCO 620	Best Practices in Biomedical Research.	3
ONCO 625	Quality Improvement Principles and Methods.	3
ONCO 635	Qualitative and Psychosocial Health Research.	3
ONCO 645	Seminars in Global Oncology.	3
PATH 652	Molecular Biology of Disease.	3
PHAR 508	Drug Discovery and Development 3.	3
PHGY 513	Translational Immunology.	3
POTH 637	Cancer Rehabilitation.	3

Music (M.Mus.): Composition (Thesis)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. in Music; Composition focuses on the development of individual voices through private instruction with some of Canada's most accomplished composers, all of whom have distinguished themselves through high-profile commissions, performances, recordings, and awards. The faculty members' diverse interests ensures a suitable mentor/supervisor.

Students admitted to the M.Mus. in Music; Composition program who have undergraduate degrees other than the B.Mus.; Major in Composition from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (33 credits)

Expand allContract all

Course	Title	Credits
MUCO 622D1	Composition Tutorial.	3
MUCO 622D2	Composition Tutorial.	3

Thesis

The thesis is a composition, accompanied by an analytical essay of approximately 20-30 pages.

Expand allContract all

Course	Title	Credits
MUGS 684	Master's Thesis Research 2.	6
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (12 credits)

6 credits from the following:

Expand allContract all		
Course	Title	Credits
MUCO 631	Seminar in Composition 1.	3
MUCO 632	Seminar in Composition 2.	3
MUCO 633	Seminar in Composition 3.	3
MUCO 634	Seminar in Composition 4.	3
MUCO 635	Seminar in Composition 5.	3
MUCO 636	Seminar in Composition 6.	3

6 credits of seminars, at the 600 level or higher, approved by the Schulich School of Music.

Music (M.A.): Music Education (Non-Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

The M.A. in Music; Non-Thesis - Music Education is a course-based program that focuses on disciplinary research methodologies and critical issues. Guidance is provided by leading scholars whose internationally acclaimed research covers a broad spectrum of topics central to the music education discipline.

Students admitted to the M.A. in Music; Non-Thesis - Music Education program who have undergraduate degrees other than the B.Mus.; Minor in Music Education from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (27 credits)

Expand allContract all		
Course	Title	Credits
MUGS 614	Reading Course 1.	3
MUGS 615	Reading Course 2.	3
MUGT 610	Seminar - Music Education 1.	3

Research Project

Expand allContract all

Course	Title	Credits
MUGS 635	Research Paper 1.	9
MUGS 636	Research Paper 2.	9

Complementary Courses (18 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUGT 610	Seminar - Music Education 1.	3
MUGT 611	Seminar - Music Education 2.	3
MUGT 612	Seminar - Music Education 3.	3
MUGT 613	Seminar - Music Education 4.	3

9 credits of seminars at the 600 level or higher, approved by the Schulich School of Music. With the approval of the Music Education Area, 6 credits may be taken in the Faculty of Education.

Music (M.A.): Music Education (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Music; Music Education provides an opportunity for studio- and classroom-based teachers and music educators working in other community settings, to explore current issues in music education and to implement their own research studies. Seminars introduce foundations of a range of research methodologies and critical thinking skills. The thesis can be submitted in one of two formats: in-depth monograph-style thesis, or a research-paper-based thesis. Students who prefer to write an in-depth monograph-style thesis will take MUGS 684 Master's Thesis Research 2. as a complementary course. Students who prefer to write a research-paper-based thesis will take two more seminars.

Students admitted to the M.A. in Music; Music Education program who have undergraduate degrees other than the B.Mus.; Minor in Music Education from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (27 credits)

Expand allContract all		
Course	Title	Credits
MUGT 610	Seminar - Music Education 1.	3

Thesis Courses

Expand allContract all

Course	Title	Credits	Course	Title	Credits
MUGS 683	Master's Thesis Research 1.	3	MUGS 635	Research Paper 1.	9
MUGS 685	Master's Thesis Research 3.	9	MUGS 636	Research Paper 2.	9
MUGS 686	Master's Thesis Research 4.	12			

Complementary Courses (18 credits)

6-9 credits from the following:

Expand allContract all

Course	Title	Credits
MUGT 610	Seminar - Music Education 1.	3
MUGT 611	Seminar - Music Education 2.	3
MUGT 612	Seminar - Music Education 3.	3
MUGT 613	Seminar - Music Education 4.	3

0-6 credits from the following

Expand allContract all

Course	Title	Credits
MUGS 684	Master's Thesis Research 2.	6

3-12 credits of seminars, at the 600 level or higher, approved by the Schulich School of Music

Music (M.A.): Musicology (Non-Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

****This program is currently not offered.****

The M.A. in Music; Musicology-Non-Thesis is a course-based program that focuses on research methodologies and critical issues. Guidance is provided by leading scholars whose internationally-acclaimed research covers a broad spectrum of topics central to the Musicology discipline.

Students admitted to the M.A. in Music; Musicology-Non-Thesis program who have undergraduate degrees other than the B.Mus.; Major in Music History from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
MUGS 614	Reading Course 1.	3
MUGS 615	Reading Course 2.	3
MUHL 529	Proseminar in Musicology.	3

Research Project

Expand allContract all

Complementary Courses (18 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 680	Seminar in Musicology 1.	3
MUHL 681	Seminar in Musicology 2.	3
MUHL 682	Seminar in Musicology 3.	3
MUHL 683	Seminar in Musicology 4.	3
MUHL 684	Seminar in Musicology 5.	3
MUHL 685	Seminar in Musicology 6.	3

6 credits of seminar at the 600 level or higher, approved by the Schulich School of Music.

Music (M.A.): Musicology (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Music; Musicology program focuses on the diverse ways in which music's political, social, and historical contexts shape the meanings. The program comprises foundational methodologies, critical thinking skills and exploration of themes in musicological literature and analytical skills. Students write an in-depth monograph-style thesis.

Students admitted to the M.A. in Music; Musicology program who have undergraduate degrees other than the B.Mus.; Major in Music History from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
MUHL 529	Proseminar in Musicology.	3

Thesis Courses

Expand allContract all

Course	Title	Credits
MUGS 684	Master's Thesis Research 2.	6
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (15 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUHL 592	Popular Music Studies.	3

12 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 680	Seminar in Musicology 1.	3
MUHL 681	Seminar in Musicology 2.	3
MUHL 682	Seminar in Musicology 3.	3
MUHL 683	Seminar in Musicology 4.	3
MUHL 684	Seminar in Musicology 5.	3
MUHL 685	Seminar in Musicology 6.	3

Music Musicology (Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The Master of Arts in Music; Musicology - Gender and Women's Studies focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies.

Students admitted to the Master of Arts in Music; Musicology - Gender and Women's Studies program who have undergraduate degrees other than the B.Mus.; Major in Music History from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
MUHL 529	Proseminar in Musicology.	3
WMST 601	Feminist Theories and Methods.	3

Thesis Courses

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Musicology on a topic centrally related to issues of Gender and/or Women's Studies.

Expand allContract all

Course	Title	Credits
MUGS 683	Master's Thesis Research 1.	3
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (15 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUHL 592	Popular Music Studies.	3

6 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 680	Seminar in Musicology 1.	3
MUHL 681	Seminar in Musicology 2.	3
MUHL 682	Seminar in Musicology 3.	3
MUHL 683	Seminar in Musicology 4.	3
MUHL 684	Seminar in Musicology 5.	3
MUHL 685	Seminar in Musicology 6.	3

3 credits of seminars at the 600 level or higher, approved by the Schulich School of Music.

3 credits from the following:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

Or a 3-credit seminar at the 600 level or higher, on gender/women's issues, which may be selected from within or outside of the Schulich School of Music. The selection must be approved by the Musicology Area.

Music (M.A.): Music Technology (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Music; Music Technology encourages interaction between musical creation, technology, and research, with an intensive focus on scientific research of advanced music technologies. Topics include computer music, new media, musical acoustics, digital signal processing, human-computer interaction, synthesis and gestural

control, music information retrieval and music perception and cognition.

Students admitted to the M.A. in Music; Music Technology may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (30 credits)

Thesis Courses

The candidate will undertake supervised research leading to a thesis that will utilize or investigate an aspect of musical science and technology.

Expand allContract all

Course	Title	Credits
MUGS 683	Master's Thesis Research 1.	3
MUGS 684	Master's Thesis Research 2.	6
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (15 credits)

15 credits of graduate seminars at the 500, 600, or 700 level approved by the Schulich School of Music, 9 credits of which must be Music Technology seminars with the prefix MUMT.

Music (M.A.): Theory (Non-Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

This program is currently not offered.

The M.A. in Music; Non-Thesis - Theory is a course-based program that focuses on disciplinary knowledge and critical issues. Guidance provided by leading scholars whose internationally acclaimed research covers a broad spectrum of topics central to the theory discipline.

Students admitted to the M.A. in Music; Non-Thesis - Theory who have undergraduate degrees other than the B.Mus.; Major in Theory from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
MUGS 614	Reading Course 1.	3
MUGS 615	Reading Course 2.	3

Research Project

Expand allContract all

Course	Title	Credits
MUGS 635	Research Paper 1.	9
MUGS 636	Research Paper 2.	9

Complementary Courses (21 credits)

12 credits from the following:

Expand allContract all

Course	Title	Credits
MUTH 652	Seminar in Music Theory 1.	3
MUTH 653	Seminar in Music Theory 2.	3
MUTH 654	Seminar in Music Theory 3.	3
MUTH 655	Seminar in Music Theory 4.	3
MUTH 656	Seminar in Music Theory 5.	3
MUTH 657	Seminar in Music Theory 6.	3

3-6 credits will be from the following:

Expand allContract all

Course	Title	Credits
MUTH 658	History of Music Theory 1.	3
MUTH 659	History of Music Theory 2.	3

3-6 credits of seminars, at the 600 level and higher, approved by the Schulich School of Music.

Music (M.A.): Theory (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Music; Theory explores how specific pieces of music are put together and how this may be generalized to relate to the way other pieces of music are composed, including music theory, various analytical models and the critical issues that define the discipline. The thesis can be submitted in one of two formats: in-depth monograph-style thesis, or a research-paper-based thesis. Students who prefer to write an in-depth monograph-style thesis will take MUGS 684 Master's Thesis Research 2. as a complementary course. Students who prefer to write a research-paper-based thesis will take two more seminars.

Depending on their background, students admitted to the M.A. Music; Theory may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
MUGS 683	Master's Thesis Research 1.	3
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (21 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUTH 652	Seminar in Music Theory 1.	3
MUTH 653	Seminar in Music Theory 2.	3
MUTH 654	Seminar in Music Theory 3.	3
MUTH 655	Seminar in Music Theory 4.	3
MUTH 656	Seminar in Music Theory 5.	3
MUTH 657	Seminar in Music Theory 6.	3

3-6 credits will be from the following:

Expand allContract all

Course	Title	Credits
MUTH 658	History of Music Theory 1.	3
MUTH 659	History of Music Theory 2.	3

0-6 credits from the following:

Expand allContract all

Course	Title	Credits
MUGS 684	Master's Thesis Research 2.	6

0-9 credits at the 600 level or higher, approved by the Schulich School of Music.

Music Theory (Thesis) (M.A.): Gender and Women's Studies (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Arts

Program credit weight: 45

Program Description

The M.A. in Music; Theory - Gender and Women's Studies focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. This program is offered in collaboration with the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University.

Students admitted to the M.A. in Music; Theory - Gender and Women's Studies who have undergraduate degrees other than the B.Mus.; Major in Theory from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's program.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
WMST 601	Feminist Theories and Methods.	3

Thesis Courses

The candidate will undertake supervised research leading to a thesis that will be an in-depth investigation in some specialized field of Music Theory on a topic centrally related to issues of Gender and/or Women's Studies.

Expand allContract all

Course	Title	Credits
MUGS 684	Master's Thesis Research 2.	6
MUGS 685	Master's Thesis Research 3.	9
MUGS 686	Master's Thesis Research 4.	12

Complementary Courses (15 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUTH 652	Seminar in Music Theory 1.	3
MUTH 653	Seminar in Music Theory 2.	3
MUTH 654	Seminar in Music Theory 3.	3
MUTH 655	Seminar in Music Theory 4.	3
MUTH 656	Seminar in Music Theory 5.	3
MUTH 657	Seminar in Music Theory 6.	3

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUTH 658	History of Music Theory 1.	3
MUTH 659	History of Music Theory 2.	3

3 credits of:

Expand allContract all

Course	Title	Credits
WMST 602	Feminist Research Symposium.	3

Or a 3 credit seminar at the 600 level or higher, on gender/women's issues, which may be selected from within or outside the Schulich School of Music. The selection must be approved by the Theory Area.

Sound Recording (Non-Thesis) (M.Mus.) (60 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 60

Program Description

The M.Mus. in Sound Recording; Non-Thesis program is a course-based, professional training program designed for musicians who wish to develop the skills required in the music recording and media industries. It is based on the German Tonmeister program and offers extensive, hands-on opportunities to record a broad spectrum of solo recitals, large opera, and symphonic repertoire with soloists and choirs, as well as complex jazz band and pop idioms.

Students are admitted to the M.Mus. in Sound Recording; Non-Thesis may be required to successfully complete one or more undergraduate course(s) before the beginning of the Master's program.

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
MUSR 629D1	Technical Ear Training.	2
MUSR 629D2	Technical Ear Training.	2
MUSR 631D1	Advanced Technical Ear Training.	2
MUSR 631D2	Advanced Technical Ear Training.	2
MUSR 667	Digital Studio Technology.	3
MUSR 668	Digital/Analog Audio Editing.	3
MUSR 669D1	Topics: Classical Music Recording.	1.5
MUSR 669D2	Topics: Classical Music Recording.	1.5
MUSR 670D1	Recording Theory and Practice 1.	5
MUSR 670D2	Recording Theory and Practice 1.	5
MUSR 671D1	Recording Theory and Practice 2.	5
MUSR 671D2	Recording Theory and Practice 2.	5
MUSR 672D1	Analysis of Recordings.	3
MUSR 672D2	Analysis of Recordings.	3
MUSR 677D1	Audio for Video Post-Production.	3
MUSR 677D2	Audio for Video Post-Production.	3
MUSR 678	Advanced Digital Editing and Post-Production.	2
MUSR 691	Mastering and Restoration.	3
MUSR 692	Music Production Workshop.	3
MUSR 695	Techniques of Immersive Sound.	3

Performance (M.Mus.): Collaborative Piano (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. in Performance; Collaborative Piano program focuses on the pianist as a collaborative musician in art song, instrumental, and opera répétiteur settings, including coaching responsibilities as well as collaboration with other musicians.

Students admitted to the M.Mus. in Performance; Collaborative Piano program who have undergraduate degrees other than the B.Mus.; Major in Performance Piano from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major in Performance Piano from McGill University may be required to successfully complete MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (23 credits)

Expand allContract all

Course	Title	Credits
MUEN 584	Studio Accompanying. ¹	1
MUGS 605	Graduate Performance Colloquium.	0
MUPG 687	Collaborative Piano Repertoire 1: Song.	1
MUPG 688	Collaborative Piano Repertoire 2: Instrumental.	1
MUPG 689	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio.	1

¹ 2 terms of MUEN 584 Studio Accompanying.

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2.	3
MUIN 622	Performance Tutorial 3. ¹	3
MUIN 622D1	Performance Tutorial 3. ¹	1.5
MUIN 622D2	Performance Tutorial 3. ¹	1.5
MUPG 600	Recital Project 1. ²	9
MUPG 653	Opera Coach Project.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1

² Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Students may take MUPG 653 Opera Coach Project. or MUPG 600 Recital Project 1.

Complementary Courses (22 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2.	9
MUPG 602	Recital Project 3.	6
MUPG 606	Interdisciplinary Project 1.	3
MUPG 614	Quick Study. ¹	3
MUPG 653	Opera Coach Project.	9
MUPG 654	Opera Coach Performance.	6

¹ If not already taken.

9 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 9 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 553	Vocal Chamber Ensemble.	1
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 569	Tabla Ensemble.	1
MUEN 579	Song Interpretation 2.	1
MUEN 580	Early Music Ensemble.	1
MUEN 584	Studio Accompanying.	1
MUEN 585	Sonata Masterclass.	1
MUEN 596	Opera Repetiteur.	2
MUPG 670	Advanced Continuo 1.	2
MUPG 671	Advanced Continuo 2.	2

Performance (M.Mus.): Conducting (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. in Performance; Conducting program allows students to specialize in instrument or choral conducting. The program provides for concentrated podium time, interactions with world-class conductors, score study and the development of rehearsal technique. A range of seminars provides for the in-depth study of performance practice and the development of analytical skills.

Students admitted to the M.Mus. in Performance; Conducting program who have undergraduate degrees other than the B.Mus. from McGill University may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus. degree from McGill University may be required to successfully complete MUPD 560 Music Information and Research Skills., some diction courses, orchestration classes and a keyboard course before completion of the Master's program.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
MUGS 605	Graduate Performance Colloquium.	0
MUPG 580	Rehearsal Techniques for Conductors.	1.5

¹ 2 terms of MUPG 580 Rehearsal Techniques for Conductors.

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 630	Conducting Tutorial 1.	3
MUIN 631	Conducting Tutorial 2.	3
MUIN 632	Conducting Tutorial 3.	3
MUPG 600	Recital Project 1. ²	9
MUPG 601	Recital Project 2.	9

Complementary Courses (15 credits)

9 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 9 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

6 credits (3 terms) of:

Course	Title	Credits
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 592	Chamber Jazz Ensemble.	2
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 595	Jazz Ensembles.	2
MUEN 597	McGill Symphony Orchestra.	2

Performance (M.Mus.): Early Music (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The Master of Music in Performance; Early Music program offers early music instrumentalists and vocalists instruction and performance experiences of a rich variety, as well as studies in historical performance practice.

Students admitted to the M.Mus. in Performance; Early Music program who have undergraduate degrees other than the B.Mus.; Major in Early Music Performance (Voice) or B.Mus.; Major in Early Music Performance (Baroque Violin, Viola, Cello, Viola da Gamba, Flute, Recorder, Oboe, Organ, Harpsichord and Early Brass Instruments) from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major Early Music Performance degree from McGill University may be required to successfully complete

MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
MUEN 580	Early Music Ensemble. ¹	1
MUGS 605	Graduate Performance Colloquium.	0

¹ 3 terms of MUEN 580 Early Music Ensemble.

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2. ¹	3
MUIN 622	Performance Tutorial 3. ¹	3
MUIN 622D1	Performance Tutorial 3. ¹	1.5
MUIN 622D2	Performance Tutorial 3. ¹	1.5
MUPG 600	Recital Project 1.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1 Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Complementary Courses (24 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2.	9
MUPG 602	Recital Project 3.	6
MUPG 603	Recital Project 4.	3
MUPG 604	Chamber Music Recital. ¹	6
MUPG 606	Interdisciplinary Project 1. ¹	3
MUPG 607	Interdisciplinary Project 2. ¹	6
MUPG 614	Quick Study.	3

¹ If chosen, students may take either MUPG 606 Interdisciplinary Project 1. or MUPG 607 Interdisciplinary Project 2..

6 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 6 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUPG 575D1	Organ Repertoire and Performance Practice.	1.5

MUPG 575D2	Organ Repertoire and Performance Practice. ¹	1.5
MUPG 590	Vocal Styles and Conventions.	3
MUPG 691	Vocal Ornamentation.	3
MUTH 602	Keyboard Modal Counterpoint.	3

¹ If not already taken

Students take 6 credits from either Instruments or Voice from the following:

Instruments

6 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 569	Tabla Ensemble.	1
MUEN 572	Cappella Antica.	2
MUEN 573	Baroque Orchestra.	2

OR

Voice

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUIN 610	Vocal Coaching 1.	1
MUIN 611	Vocal Coaching 2.	1
MUIN 612	Vocal Coaching 3.	1

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 553	Vocal Chamber Ensemble.	1
MUEN 569	Tabla Ensemble.	1
MUEN 572	Cappella Antica.	2
MUEN 579	Song Interpretation 2.	1
MUEN 593	Choral Ensembles.	2
MUEN 654	Opera Repertoire Experience.	1
MUEN 696	Opera Theatre.	1

Performance (M.Mus.): Jazz Performance (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. Performance; Jazz program is flexibly designed to offer specialization in Jazz Composition, Jazz Performance, or Jazz Orchestra, including jazz pedagogy, composition, and arranging.

A recital and a recording of original music are the principal thesis requirements.

Students admitted to the M.Mus. Performance; Jazz program who have undergraduate degrees other than the B.Mus.; Major in Performance; Jazz from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree.

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
MUJZ 601	Jazz Pedagogy.	3

Required Thesis Courses (27 credits)

9 credits from:

Expand allContract all

Course	Title	Credits
MUIN 626	Jazz Performance/Composition Tutorial 1.	3
MUIN 627	Jazz Performance/Composition Tutorial 2.	3
MUIN 628	Jazz Performance/Composition Tutorial 3. ¹	3
MUIN 628D1	Jazz Performance/Composition Tutorial 3. ¹	1.5
MUIN 628D2	Jazz Performance/Composition Tutorial 3. ¹	1.5

¹ Students may take MUIN 628 Jazz Performance/Composition Tutorial 3. or MUIN 628D1 Jazz Performance/Composition Tutorial 3. and MUIN 628D2 Jazz Performance/Composition Tutorial 3..

18 credits from one of the following:

Jazz Performance

Expand allContract all

Course	Title	Credits
MUPG 651	Performance/Composition Recital Project.	9
MUPG 659	Performance in Recording Media.	9

OR

Jazz Composition and Arranging

Expand allContract all

Course	Title	Credits
MUPG 652	Jazz Ensemble Recital Project.	9
MUPG 659	Performance in Recording Media.	9

OR

Jazz Orchestra

Expand allContract all

Course	Title	Credits
MUPG 651	Performance/Composition Recital Project.	9
MUPG 652	Jazz Ensemble Recital Project.	9

Complementary Courses (15 credits)

15 credits from one of the following streams:

Jazz Performance Stream

Expand allContract all

Course	Title	Credits
MUJZ 640	Jazz Composition and Arranging 1.	2
MUJZ 641	Jazz Composition and Arranging 2.	2
MUPG 695	Graduate Jazz Improvisation Seminar.	3

3 credits of a seminar at the 600-level or higher, approved by the Department.

5 credits of ensembles, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572D1 Free Improvisation 2./MUPG 572D2 Free Improvisation 2. can be substituted for 1 credit of jazz ensemble.

OR

Jazz Composition and Arranging Stream

Expand allContract all

Course	Title	Credits
MUJZ 640	Jazz Composition and Arranging 1.	2
MUJZ 641	Jazz Composition and Arranging 2.	2

6 credits of seminars at the 600-level or higher, approved by the Schulich School of Music.

5 credits of ensembles, at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572D1 Free Improvisation 2./MUPG 572D2 Free Improvisation 2. can be substituted for 1 credit of jazz ensemble.

OR

Jazz Orchestra Stream

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUJZ 640	Jazz Composition and Arranging 1.	2
MUJZ 641	Jazz Composition and Arranging 2.	2
MUJZ 644	Jazz Repertoire Project 1.	2
MUJZ 645	Jazz Repertoire Project 2.	2

3 credits of a seminar at the 600 level or higher, approved by the Schulich School of Music.

8 credits of ensembles at the 500 level or above, with the prefix MUEN (4 credits must be in jazz related ensembles). MUPG 572D1 Free Improvisation 2./MUPG 572D2 Free Improvisation 2. can be substituted for 1 credit of jazz ensemble.

Performance (M.Mus.): Opera and Voice (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. in Performance; Opera and Voice program blends performance training with humanities-based scholarship in a vibrant musical environment. The program provides opportunities to develop artistry in a variety of solo and operatic repertoires.

Students admitted to the M.Mus. in Performance; Opera and Voice program who have undergraduate degrees other than B.Mus.; Major in Performance Voice from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major in Performance Voice degree from McGill University may be required to successfully complete MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
MUGS 605	Graduate Performance Colloquium.	0
MUIN 610	Vocal Coaching 1.	1
MUIN 611	Vocal Coaching 2.	1
MUIN 612	Vocal Coaching 3.	1

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2.	3
MUIN 622	Performance Tutorial 3. ¹	3
MUIN 622D1	Performance Tutorial 3. ¹	1.5
MUIN 622D2	Performance Tutorial 3. ¹	1.5
MUPG 600	Recital Project 1.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1 Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Complementary Courses (24 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2.	9
MUPG 602	Recital Project 3.	6
MUPG 603	Recital Project 4.	3

MUPG 606	Interdisciplinary Project 1.	3
MUPG 614	Quick Study.	3

6 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 6 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

3 credits from the following:

Expand allContract all		
Course	Title	Credits
MUPG 590	Vocal Styles and Conventions. ¹	3
MUPG 691	Vocal Ornamentation.	3

¹ If not already taken.

6 credits from the following:

Expand allContract all		
Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 553	Vocal Chamber Ensemble.	1
MUEN 560	Chamber Music Ensemble.	1
MUEN 572	Cappella Antica.	2
MUEN 579	Song Interpretation 2.	1
MUEN 580	Early Music Ensemble.	1
MUEN 593	Choral Ensembles.	2
MUEN 654	Opera Repertoire Experience.	1
MUEN 696	Opera Theatre.	1

Performance (M.Mus.): Orchestral Instruments, Guitar (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. Performance; Orchestral Instruments, Guitar program provides instrumentalists and guitarists with the opportunity to hone their artistry and expressive, interpretive skills. The program combines performance with seminars in performance practice in the broader humanistic and scientific contexts of music and artistic research-creation.

Students admitted to the M.Mus. Performance; Orchestral Instruments, Guitar program who have undergraduate degrees other than the B.Mus.; Major Performance (Orchestral Instruments) or B.Mus. Major in Performance (Organ, Harpsichord, Guitar) from McGill University, may be required to successfully complete one or more undergraduate courses before completion of the Master's degree. Students with a B.Mus.; Major in Performance (Orchestral Instruments) or a B.Mus.; Major in Performance; (Organ, Harpsichord, Guitar) degree from McGill

University may be required to successfully complete MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
MUGS 605	Graduate Performance Colloquium.	0

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2.	3
MUIN 622	Performance Tutorial 3. ¹	3
MUIN 622D1	Performance Tutorial 3. ¹	1.5
MUIN 622D2	Performance Tutorial 3. ¹	1.5
MUPG 600	Recital Project 1.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1 Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Complementary Courses (27 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2. ¹	9
MUPG 602	Recital Project 3.	6
MUPG 603	Recital Project 4.	3
MUPG 604	Chamber Music Recital.	6
MUPG 606	Interdisciplinary Project 1. ¹	3
MUPG 607	Interdisciplinary Project 2. ¹	6
MUPG 608	Orchestral Repertoire Examination 1.	3
MUPG 609	Orchestral Repertoire Examination 2.	6
MUPG 610	Orchestral Repertoire Examination 3.	9

¹ If chosen, students may take MUPG 606 Interdisciplinary Project 1. or MUPG 607 Interdisciplinary Project 2.

9 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 9 credits must have a MUCCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

Students take 9 credits from either Guitar or Orchestral Instruments courses from the following:

Guitar

3 credits (three terms) of:

Expand allContract all

Course	Title	Credits
MUEN 562	Guitar Ensemble.	1

3-6 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1. ¹	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 568	Multiple Ensemble 1.	1
MUEN 569	Tabla Ensemble.	1
MUPG 571	Free Improvisation 1. ¹	1
MUPG 572D1	Free Improvisation 2. ¹	0.5
MUPG 572D2	Free Improvisation 2.	0.5

¹ May be taken only once.

0-3 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings.

OR

Orchestral Instruments

6 credits (three terms) from the following:

Expand allContract all

Course	Title	Credits
MUEN 573	Baroque Orchestra.	2
MUEN 590	McGill Wind Orchestra.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 597	McGill Symphony Orchestra.	2

And 3 credits from either Strings, Winds and Brass, or Percussion, or Harp:

Strings, Winds and Brass

2 credits (two terms) from the following:

Expand allContract all

Course	Title	Credits
MUEN 560	Chamber Music Ensemble.	1
MUEN 591	Brass Consort.	1

1 credit from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1. ¹	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 568	Multiple Ensemble 1.	1
MUEN 569	Tabla Ensemble.	1

MUEN 585	Sonata Masterclass.	1
MUEN 591	Brass Consort.	1
MUEN 599	Jazz Studio Orchestra.	1
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

Percussion

1 credit of:

Expand allContract all

Course	Title	Credits
MUEN 598	Percussion Ensembles.	1

2 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 568	Multiple Ensemble 1.	1
MUEN 569	Tabla Ensemble.	1
MUEN 598	Percussion Ensembles.	1
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

¹ May be taken only once.

Harp

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 568	Multiple Ensemble 1.	1
MUEN 569	Tabla Ensemble.	1
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

¹ May be taken only once.

Performance (M.Mus.): Organ (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus. in Performance; Organ program provides organists with the opportunity to hone their artistry and interpretive skills. The program combines performance with seminars in historically informed performance practice, music and liturgy, counterpoint, improvisation, and continuo playing, among other options.

Students admitted to the M.Mus. in Performance; Organ program who have undergraduate degrees other than the B.Mus.; Major in Performance (Organ, Harpsichord, Guitar) from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus.; Major Performance (Organ, Harpsichord, Guitar) degree from McGill University may be required to successfully complete MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
MUGS 605	Graduate Performance Colloquium.	0
MUPG 575D1	Organ Repertoire and Performance Practice.	1.5
MUPG 575D2	Organ Repertoire and Performance Practice.	1.5

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2.	3
MUIN 622	Performance Tutorial 3.	3
MUIN 622D1	Performance Tutorial 3.	1.5
MUIN 622D2	Performance Tutorial 3.	1.5
MUPG 600	Recital Project 1.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1 Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Complementary Courses (24 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2.	9
MUPG 602	Recital Project 3.	6
MUPG 603	Recital Project 4.	3
MUPG 606	Interdisciplinary Project 1.	3

MUPG 607	Interdisciplinary Project 2.	6	recital options including solo and chamber music performance, sound recording, and creative interdisciplinary projects.
MUPG 676	Special Project in Church Music.	9	

6 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 6 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

3 credits from the following:

Expand allContract all

Course	Title	Credits
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUTH 602	Keyboard Modal Counterpoint.	3
MUTH 604	Keyboard Tonal Counterpoint.	3

or a 3-credit seminar at the 500 level or higher, approved by the Schulich School of Music.

6 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 569	Tabla Ensemble.	1
MUEN 573	Baroque Orchestra.	2
MUEN 580	Early Music Ensemble.	1
MUEN 593	Choral Ensembles.	2
MUEN 594	Contemporary Music Ensemble.	1
MUEN 597	McGill Symphony Orchestra.	2
MUHL 591D1	Paleography.	1.5
MUHL 591D2	Paleography.	1.5
MUPG 575D1	Organ Repertoire and Performance Practice.	1.5
MUPG 575D2	Organ Repertoire and Performance Practice.	1.5
MUTH 602	Keyboard Modal Counterpoint.	3
MUTH 604	Keyboard Tonal Counterpoint.	3

¹ May be taken more than once.

Performance (M.Mus.): Piano (Thesis) (45 credits)

Offered by: Music (Schulich School of Music)

Degree: Master of Music

Program credit weight: 45

Program Description

The M.Mus.; Performance Piano program blends performance training with humanities-based scholarship in a vibrant musical environment. The program provides opportunities for chamber music and a range of

recital options including solo and chamber music performance, sound recording, and creative interdisciplinary projects.

Students admitted to the M.Mus.; in Performance; Piano program who have undergraduate degrees other than the B.Mus.; Major in Performance Piano from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the Master's degree. Students with a B.Mus.; Major in Performance Piano degree from McGill University may be required to successfully complete MUPD 560 Music Information and Research Skills. before completion of the Master's program.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
MUGS 605	Graduate Performance Colloquium.	0
MUPG 683	Piano Seminar 1.	1.5
MUPG 684	Piano Seminar 2.	1.5

Thesis Courses

Expand allContract all

Course	Title	Credits
MUIN 620	Performance Tutorial 1.	3
MUIN 621	Performance Tutorial 2.	3
MUIN 622	Performance Tutorial 3.	3
MUIN 622D1	Performance Tutorial 3.	1.5
MUIN 622D2	Performance Tutorial 3.	1.5
MUPG 600	Recital Project 1.	9

¹ Students may take MUIN 622 Performance Tutorial 3. or MUIN 622D1 Performance Tutorial 3. and MUIN 622D2 Performance Tutorial 3..

Complementary Courses (24 credits)

9 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 601	Recital Project 2.	9
MUPG 602	Recital Project 3.	6
MUPG 603	Recital Project 4.	3
MUPG 604	Chamber Music Recital.	6
MUPG 606	Interdisciplinary Project 1.	3
MUPG 607	Interdisciplinary Project 2.	6

¹ If chosen, students may take either MUPG 606 Interdisciplinary Project 1. or MUPG 607 Interdisciplinary Project 2..

9 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 9 credits must have a MUCO, MUGS, MUGT, MUHL, MUMT, MUPP or MUTH subject code.

6 credits from the following:

[Expand all](#)
[Contract all](#)

Course	Title	Credits
MUEN 540	Chamber Music Project 1.	0.5
MUEN 541	Chamber Music Project 2.	0.5
MUEN 553	Vocal Chamber Ensemble.	1
MUEN 560	Chamber Music Ensemble.	1
MUEN 561	2nd Chamber Music Ensemble.	1
MUEN 568	Multiple Ensemble 1.	1
MUEN 569	Tabla Ensemble.	1
MUEN 578	Song Interpretation 1.	1
MUEN 579	Song Interpretation 2.	1
MUEN 582	Piano Ensembles.	1
MUEN 584	Studio Accompanying.	1
MUEN 585	Sonata Masterclass.	1
MUEN 588	Multiple Ensemble 2.	1
MUEN 590	McGill Wind Orchestra.	2
MUEN 594	Contemporary Music Ensemble.	2
MUEN 597	McGill Symphony Orchestra.	2
MUEN 688	Multiple Ensembles.	2
MUPD 580	Piano Pedagogy Practicum.	2
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5
MUPG 670	Advanced Continuo 1.	2
MUPG 670D1	Advanced Continuo 1.	1
MUPG 670D2	Advanced Continuo 1.	1
MUPG 671	Advanced Continuo 2.	2
MUPG 671D1	Advanced Continuo 2.	1
MUPG 671D2	Advanced Continuo 2.	1
MUPG 687	Collaborative Piano Repertoire 1: Song.	1
MUPG 688	Collaborative Piano Repertoire 2: Instrumental.	1
MUPG 689	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio.	1

Details concerning the comprehensive examinations, thesis and academic regulations are available from the Graduate Studies Coordinator, Schulich School of Music or from the Music Graduate website at: <http://www.mcgill.ca/music/programs>.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

Course	Title	Credits
MUCO 710	General Examinations.	0
MUGS 701	Comprehensive Examinations.	0

12 credits (two years) of:

Course	Title	Credits
MUCO 722D1	Doctoral Composition Tutorial.	3
MUCO 722D2	Doctoral Composition Tutorial.	3

Complementary Courses (12 credits)

12 credits of seminars at the 600 level or higher, approved by the Schulich School of Music.

Composition Performance

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

Music: Performance Studies (D.Mus.)

Offered by: Music (Schulich School of Music)

Degree: Doctor of Music

Program Description

The D.Mus. in Music; Composition offers private instruction with some of Canada's most accomplished composers as well as studies in different compositional methods and technologies.

Students admitted to the D.Mus. in Music; Composition program who have a master's degree other than the M.Mus. in Music; Composition from McGill University, may be required to successfully complete one or more undergraduate course(s) before completion of the doctoral program.

Offered by: Music (Schulich School of Music)

Degree: Doctor of Music

Program Description

The Doctor of Music (D.Mus.); Performance Studies focuses on practice through in-depth research in areas linked to performance. The program includes a doctoral project that is completed through artistic research or research papers choices. Live performance requirements are part of both choices.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Recitals (36 credits)

Expand allContract all

Course	Title	Credits
MUPG 760	Doctoral Recital 1.	12
MUPG 767	Doctoral Recital 2.	12
MUPG 771	Doctoral Final Project.	12

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
MUGS 701	Comprehensive Examinations.	0
MUGS 711	Performance Doctoral Colloquium 1 .	0
MUPD 650	Research Methods in Music .	3

Performance Tutorials

one hour per week.

Expand allContract all

Course	Title	Credits
MUIN 720	D.Mus. Performance Tutorial 1.	4
MUIN 721	D.Mus. Performance Tutorial 2.	4
MUIN 722	D.Mus. Performance Tutorial 3.	4
MUIN 723	D.Mus. Performance Tutorial 4.	4
MUIN 724	D.Mus. Performance Tutorial 5.	4
MUIN 725	D.Mus. Performance Tutorial 6.	4

OR

one and a half (1.5) hours per week

Expand allContract all

Course	Title	Credits
MUIN 730	D.Mus. Performance Tutorial 8.	6
MUIN 731	D.Mus. Performance Tutorial 9.	6
MUIN 732	D.Mus. Performance Tutorial 10.	6
MUIN 733	D.Mus. Performance Tutorial 11.	6

Complementary Courses

12 - 20 credits

12 credits at the 500 level or higher, to be chosen from the Schulich School of Music's seminar offerings; 3 of the 12 credits must have a

MUGS, MUGT, MUHL MUMT, or MUTH course code. Up to 3 of the 12 credits may be replaced with a supervised special project approved by the advisory committee, departmental chair and the Associate Dean of Graduate Studies in Music.

0-8 credits from (Voice Candidates only: Vocal Repertoire Coaching):

Expand allContract all

Course	Title	Credits
MUIN 700	Doctoral Repertoire Coaching 1.	2
MUIN 701	Doctoral Repertoire Coaching 2.	2
MUIN 702	Doctoral Repertoire Coaching 3.	2
MUIN 703	Doctoral Repertoire Coaching 4.	2

Music (Composition, Music Education, Musicology, Music Technology, Sound Recording, Theory, Interdisciplinary Studies) (Ph.D.)

Offered by: Music (Schulich School of Music)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Music is offered in eight different topic areas: Musicology, Music Theory, Music Technology, Music Education, Sound Recording, Composition, Interdisciplinary Studies and Applied Performance Sciences.

Students admitted to the Ph.D.; Music program who have a master's degree other than a master's degree in music from McGill University may be required to successfully complete one or more undergraduate courses before completion of the doctoral degree.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Language Reading Requirements

No foreign-language reading examinations required in Sound Recording, Interdisciplinary Studies, Music Education, Music Technology, Musicology and Applied Performance Sciences.

Composition/Music Theory

One foreign-language reading examination required. Students whose mother tongue is French are exempt from the French Reading Exam.

Required Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUGS 701	Comprehensive Examinations.	0
MUGS 705	Colloquium.	0

Complementary Courses (0-30 credits)

Students entering in Ph.D. 1

15 credits of seminars at the 600 level or higher, approved by the Department. For Music Theory students, 0-6 credits will be selected from the following if not taken previously or equivalent courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUTH 658	History of Music Theory 1.	3
MUTH 659	History of Music Theory 2.	3

0-15 credits of additional seminars at the 600 or higher, will be assigned by the Associate Dean of Graduate Studies in Music in consultation with the area coordinator, or the admissions committee for students in Interdisciplinary Studies or in Applied Performance Sciences, at the time of the admissions.

Students entering in Ph.D. 2

0-15 credits of seminars at the 600 level or higher will be assigned by the Associate Dean of Graduate Studies in Music in consultation with the area coordinator, or the admissions committee for students in Interdisciplinary Studies or in Applied Performance Sciences, at the time of the admissions. The selection must be approved by the Schulich School of Music. For Music Theory students, 0-6 credits will be selected from the following if not taken previously or equivalent courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUTH 658	History of Music Theory 1.	3
MUTH 659	History of Music Theory 2.	3

24 credits; Composition students entering in Ph.D. 2 only:

12 credits of seminars at the 600 level or higher

One semester of:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUCO 710	General Examinations.	0

12 credits (two years) of:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUCO 722D1	Doctoral Composition Tutorial.	3
MUCO 722D2	Doctoral Composition Tutorial.	3

Composition students only: Composition Performance

The candidate must present a concert of his/her compositions. With the permission of the Composition Area Committee, the compositions may be presented as parts of two or three concerts, or as a list of national and international performances since the student began his/her residency.

Composition students only:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUCO 710	General Examinations.	0

Sound Recording students only:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUSR 690	Special Field Research.	3

Music Theory students only:

[Expand all](#)[Contract all](#)

Course	Title	Credits
MUTH 710	Teaching Practicum.	0
MUTH 711	General Examinations.	0

Music: Gender and Women's Studies (Ph.D.)

Offered by: Music (Schulich School of Music)

Degree: Doctor of Philosophy

Program Description

This program is open to doctoral students who are interested in cross-disciplinary research that focuses on issues centrally related to gender, sexuality, feminist theory, and/or women's studies. This program is offered in collaboration with the McGill Institute for Gender, Sexuality, and Feminist Studies that includes faculty and graduate students from across the University.

Students admitted to the PhD in Music who have a master's degree other than a master's degree in music from McGill University may be required to successfully complete one or more undergraduate course(s) before completion of the doctoral program.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Details concerning the comprehensive examinations, thesis, and academic regulations are available from the Graduate Studies

Coordinator, Schulich School of Music or from the Music Graduate website at: <http://www.mcgill.ca/music/programs>.

Language Reading Requirements

Musicology

No language requirement.

Music Theory

One foreign language required. Students whose mother tongue is French are exempt from the French Language Reading examination.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
MUGS 701	Comprehensive Examinations.	0
MUGS 705	Colloquium.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses (12-27 credits)

Students entering in Ph.D. 1

27 credits of seminars at the 600 level or higher, approved by the Department (3 of the 27 credits must be in gender/women's studies, taken in the Schulich School of Music or outside and approved by the Musicology or Theory area).

Students entering in Ph.D. 2

12 credits of seminars at the 600 level or higher, approved by the Schulich School of Music (3 of the 12 credits must be in gender/women's studies, taken in the Schulich School of Music or outside and approved by the Musicology or Theory area).

Music Theory students only:

Expand allContract all

Course	Title	Credits
MUTH 710	Teaching Practicum.	0
MUTH 711	General Examinations.	0

Performance (Gr. Dip.) (30 credits)

Offered by: Music (Schulich School of Music)

Program credit weight: 30

Program Description

A one-year graduate performance diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects. Designed as a polishing diploma, the program prepares musicians for professional careers as soloist, opera singers, collaborative pianists, chamber, jazz and orchestral musicians or for further graduate studies in performance. Flexible program requirements, with range of performance project options including solo, chamber, recording, orchestral auditions, and creative collaborations. Admission is by

audition, with candidates having previously completed a B.Mus., a Licentiate, or M.Mus.

Required Courses (16 credits)

Expand allContract all

Course	Title	Credits
MUIN 634	Graduate Diploma Tutorial 1.	8
MUIN 635	Graduate Diploma Tutorial 2.	8

Complementary Courses (14 credits)

8 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 640	Graduate Diploma Performance Project 1.	4
MUPG 641	Graduate Diploma Performance Project 2.	4
MUPG 642	Graduate Diploma Performance Project 3.	8
MUPG 643	Graduate Diploma Interdisciplinary Project.	4
MUPG 644	Graduate Diploma Concerto Performance.	4
MUPG 645	Graduate Diploma Recording Project.	4

6 credits of Performance courses with Schulich School of Music approval from the following:

6 credits of any ensemble courses from the following list for these areas:

Expand allContract all

Course	Title	Credits
MUPG 571	Free Improvisation 1. ¹	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

¹ Not open to Jazz students

and the additional courses from the following list for these areas:

Voice

Expand allContract all

Course	Title	Credits
MUIN 610	Vocal Coaching 1.	1
MUIN 611	Vocal Coaching 2. ¹	1
MUPG 590	Vocal Styles and Conventions. ¹	3

¹ if not already taken

Piano

Expand allContract all

Course	Title	Credits
MUPG 670	Advanced Continuo 1. ¹	2
MUPG 671	Advanced Continuo 2. ¹	2
MUPG 683	Piano Seminar 1.	1.5

MUPG 684	Piano Seminar 2.	1.5
MUPG 687	Collaborative Piano Repertoire 1: Song. ²	1
MUPG 688	Collaborative Piano Repertoire 2: Instrumental. ²	1
MUPG 689	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio.	1

¹ if not already taken
² may be repeated with the permission of the instructor

Chamber Music

Expand allContract all

Course	Title	Credits
MUIN 500	Practical Instruction 1.	1

Organ

Expand allContract all

Course	Title	Credits
MUPG 575D1	Organ Repertoire and Performance Practice.	1.5
MUPG 575D2	Organ Repertoire and Performance Practice. ¹	1.5
MUPG 670	Advanced Continuo 1. ¹	2
MUPG 671	Advanced Continuo 2.	2

¹ if not already taken

One 3-credit seminar at the 500 or 600 level approved by The Schulich School of Music

Early Music/Harpsichord

Expand allContract all

Course	Title	Credits
MUPG 670	Advanced Continuo 1. ¹	2
MUPG 671	Advanced Continuo 2. ¹	2

¹ if not already taken

Jazz

Expand allContract all

Course	Title	Credits
MUJZ 640	Jazz Composition and Arranging 1. ¹	2
MUJZ 641	Jazz Composition and Arranging 2. ¹	2

One 3-credit seminar starting with MUPG¹

¹ if not already taken

Performance (Post-Grad Artist Diploma) (30 credits)

Offered by: Music (Schulich School of Music)

Degree: PGD-AT

Program credit weight: 30

Program Description

The Post-Graduate Artist Diploma in Performance is a third-cycle, one-year post-Master's program that enables an intensive focus on the pursuit of performance goals at the highest level, through repertoire expansion and refinement of artistry, including intensive coaching, practice, and varied performance projects. Admission is by audition, with candidates having previously completed an M.Mus. or equivalent.

Required Courses (16 credits)

Expand allContract all

Course	Title	Credits
MUIN 715	Post-Graduate Artist Diploma Tutorial 1.	8
MUIN 716	Post-Graduate Artist Diploma Tutorial 2.	8

Complementary Courses (14 credits)

8 credits from the following:

Expand allContract all

Course	Title	Credits
MUPG 750	Post-Graduate Artist Diploma Performance Project 1.	4
MUPG 751	Post-Graduate Artist Diploma Performance Project 2.	4
MUPG 752	Post-Graduate Artist Diploma Performance Project 3.	8
MUPG 752D1	Post-Graduate Artist Diploma Performance Project 3.	4
MUPG 752D2	Post-Graduate Artist Diploma Performance Project 3.	4
MUPG 753	Post-Graduate Artist Diploma Interdisciplinary Project.	4
MUPG 754	Post-Graduate Artist Diploma Concerto Performance.	4

¹ Students may take MUPG 752 Post-Graduate Artist Diploma Performance Project 3. or MUPG 752D1 Post-Graduate Artist Diploma Performance Project 3. and MUPG 752D2 Post-Graduate Artist Diploma Performance Project 3..

0-3 credits from:

Expand allContract all

Course	Title	Credits
MUSR 692	Music Production Workshop.	3

*Needed of all instruments except Voice.

3-6 credits from the following:

Performance courses with Schulich School of Music approval from the following lists:

3-6 credits from any ensemble courses with the prefix MUEN at the 500 or 600 level

Expand allContract all

Course	Title	Credits
MUPG 571	Free Improvisation 1.	1
MUPG 572D1	Free Improvisation 2.	0.5
MUPG 572D2	Free Improvisation 2.	0.5

and the additional courses from the following list:

Voice

Expand allContract all

Course	Title	Credits
MUIN 610	Vocal Coaching 1.	1
MUIN 611	Vocal Coaching 2.	1

Piano

Expand allContract all

Course	Title	Credits
MUPG 670	Advanced Continuo 1.	2
MUPG 671	Advanced Continuo 2.	2
MUPG 687	Collaborative Piano Repertoire 1: Song.	1
MUPG 688	Collaborative Piano Repertoire 2: Instrumental.	1
MUPG 689	Collaborative Piano Rep.3: Orch. Reduction, Opera, Oratorio.	1

¹ if not already taken

² may be repeated with the permission of the instructor

Chamber Music

Expand allContract all

Course	Title	Credits
MUIN 500	Practical Instruction 1.	1

Organ

Expand allContract all

Course	Title	Credits
MUPG 575D1	Organ Repertoire and Performance Practice.	1.5
MUPG 575D2	Organ Repertoire and Performance Practice.	1.5
MUPG 670	Advanced Continuo 1.	2
MUPG 671	Advanced Continuo 2.	2

¹ if not already taken

One 3-credit seminar at the 500 or 600 level approved by the Department.

Early Music

Expand allContract all

Course	Title	Credits
MUPG 670	Advanced Continuo 1.	2
MUPG 671	Advanced Continuo 2.	2

¹ if not already taken

Performance Choral Conducting (Gr. Cert.) (15 credits)

Offered by: Music (Schulich School of Music)

Program credit weight: 15

Program Description

The Graduate Certificate in Performance - Choral Conducting is designed for choral conductors wishing to perfect their technical, pedagogical, and musical skills. This flexible program allows conductors to develop their craft while maintaining their professional activities. The program includes group tutorial instruction in conducting, ensemble participation, and complementary courses offering the opportunity to focus on conducting technique, rehearsal pedagogy, or performance practice. Enrollment is limited.

Required Courses (8 credits)

Expand allContract all

Course	Title	Credits
MUIN 637	Graduate Certificate Conducting Tutorial 1.	3
MUPD 560	Music Information and Research Skills.	1
MUPG 648	Graduate Certificate Conducting Project .	4

Complementary Courses (7 credits)

4 credits from the following:

Expand allContract all

Course	Title	Credits
MUEN 563	Jazz Vocal Workshop.	2
MUEN 572	Cappella Antica.	2
MUEN 593	Choral Ensembles.	2

3 credits from the following:

Course	Title	Credits
MUIN 638	Graduate Certificate Conducting Tutorial 2.	3
MUPG 580	Rehearsal Techniques for Conductors.	1.5
MUPG 677	Seminar in Performance Topics 1.	3
MUPG 678	Seminar in Performance Topics 2.	3
MUPP 690	Performance Practice Seminar 1.	3
MUPP 691	Performance Practice Seminar 2.	3
MUPP 692	Performance Practice Seminar 3.	3
MUPP 693	Performance Practice Seminar 4.	3
MUPP 694	Performance Practice Seminar 5.	3
MUPP 695	Performance Practice Seminar 6.	3

¹ If this course is chosen, it must be taken for two terms (for 3 credits).

Advanced Nursing (Non-Thesis): Advanced Practice Nursing (M.Sc.A.) (48 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 48

Program Description

The M.Sc.(A) in Advanced Nursing; Non-Thesis - Advanced Practice Nursing (APN) focuses on advanced practice nursing roles in diverse settings and populations. Content is organized based on a Strength-Based Nursing and health care approach and focuses on family assessment and intervention, collaborative partnerships, and the development of capacities to reflect purposefully and in depth on nursing practice.

This concentration is also designed to develop policy, leadership and nursing education skills. There is an emphasis on bringing the best available evidence to nursing care practice within a variety of healthcare settings, roles, or situations. The knowledge translation stream or research stream choices within the program are to be selected to address a clinically relevant nursing challenge.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
NUR2 515	Applied Statistics for Nursing.	3
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 603	Teaching and Learning in Nursing .	3
NUR2 605	Advanced Clinical Reasoning.	3
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 642	Ethics in Advanced Practice.	3

Complementary Courses (18 credits)

9-12 credits from one of the following streams:

Knowledge Translation Stream

9 credits from the following project-based courses:

Expand allContract all

Course	Title	Credits
NUR2 601	Applied Knowledge Translation in Healthcare 1.	6
NUR2 602	Applied Knowledge Translation in Healthcare 2 .	3

Research Stream

12 credits from the following project-based courses:

Course	Title	Credits
NUR2 630	Research Project 1.	3
NUR2 631	Research Project 2.	6
NUR2 632	Research Project 3.	3

3-6 credits from the following clinical courses:

Course	Title	Credits
NUR2 622	Nursing Education Internship.	3
NUR3 628	Advanced Practice Nursing Internship.	3

3 credits at the 500-level or higher in the area of health equity to be approved by an Academic Adviser.

0-3 credits at the 500-level or higher of a course that furthers advanced practice nursing competencies, to be approved by an Academic Adviser.

Advanced Nursing (Non-Thesis): Global Health (M.Sc.A.) (48 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 48

Program Description

The Master of Science (Applied) in Advanced Nursing; Non-Thesis - Global Health program focuses on collaborative, trauma-informed, culturally safe, Strengths-Based Nursing (SBN) and health care approaches to working with underserved populations including in limited-resource and rural environments. The concentration stresses the importance of understanding the inherent power dynamics, systemic barriers, and ethical dilemmas that arise through this work. The program emphasizes health equity focused content throughout. In the final year of study, the program includes one semester in a global health partnership site (locally, provincially or internationally) that focuses on clinical and project-based work.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
NUR2 515	Applied Statistics for Nursing.	3
NUR2 516	Perspectives on Global Health.	3
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 608	Seminar in Nursing.	3
NUR2 606	Clinical Reasoning in a Global Context .	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 630	Research Project 1.	3

NUR2 631	Research Project 2.	6	6-9 credits at the 500 level or higher of a course that furthers advanced practice nursing competencies, including relevant School of Continuing Studies courses in the area of administration, to be approved by an academic adviser.
NUR2 632	Research Project 3.	3	
NUR2 636	Global Health Nursing Internship.	3	
NUR2 642	Ethics in Advanced Practice.	3	9-12 credits from the following two streams:

Complementary Course (3 credits)

3 credits at the 500 level or higher of a course that furthers global health competencies, to be approved by an Academic Adviser.

Advanced Nursing (Non-Thesis): Nursing Services Administration (M.Sc.A.) (48 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 48

Program Description

The M.Sc.(Applied) in Advanced Nursing; Non-Thesis - Nursing Services Administration focuses on the appropriate distribution of nursing care; the planning, coordination, and evaluation of nursing services; the management of human, material, and financial resources; and the importance of interdisciplinary collaboration to meet standards of care. This program emphasizes management, leadership, and policy skills—in preparation for today's evolving, complex healthcare delivery systems, where leading change for system-level transformation is required. The use of best available evidence to support nursing administration practices within a variety of healthcare settings. Students may select the knowledge translation stream or the research stream to address a relevant nursing administration issue.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
NUR2 515	Applied Statistics for Nursing.	3
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR3 624	Nursing Services Administration Internship.	3

Complementary Courses (21 credits)

3 credits at the 500-level or higher in the area of Health Equity to be approved by an Academic Advisor.

6	6-9 credits at the 500 level or higher of a course that furthers advanced practice nursing competencies, including relevant School of Continuing Studies courses in the area of administration, to be approved by an academic adviser.
3	9-12 credits from the following two streams:

Knowledge Translation Stream

Expand allContract all

Course	Title	Credits
NUR2 601	Applied Knowledge Translation in Healthcare 1.	6
NUR2 602	Applied Knowledge Translation in Healthcare 2 .	3

Research Stream

Expand allContract all

Course	Title	Credits
NUR2 630	Research Project 1.	3
NUR2 631	Research Project 2.	6
NUR2 632	Research Project 3.	3

Nursing (Non-Thesis): Direct Entry to Advanced Practice Nursing (M.Sc.A.) (61 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 61

Program Description

The M.Sc.(Applied) in Nursing; Non-Thesis - Direct Entry to Advanced Practice Nursing program is an entry to practice program structured for individuals with a non-nursing undergraduate degree to study to become a nurse in a three-year Master's program. The program focuses on the preparation needed for both entry-to-practice and advanced practice nursing. A Strengths-Based Nursing and health care approach is used in a variety of clinical settings. Emphasis is placed on bringing the best available evidence to nursing practice. Clinically relevant nursing challenges will be addressed in the choice of one of the two streams. Graduates of this program are eligible to write the OIIQ licensing exam.

Program Prerequisite

The completion of a Qualifying Year (QY) is mandatory before applying to Year 1 of the M.Sc.(Applied) in Nursing; Non-Thesis - Direct entry to Advanced Practice Nursing program.

Required Courses (49 credits)

Expand allContract all

Course	Title	Credits
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
NUR2 515	Applied Statistics for Nursing.	3
NUR2 516	Perspectives on Global Health.	3
NUR2 607	Children's Nursing	3

NUR2 609	Nursing Care of Children and their Families.	3	a Qualifying Year (QY) is mandatory before applying to Year 1 of this program. Upon completion, graduates are eligible to write the OIIQ licensing exam.
NUR2 610	Ambulatory/Community Care.	3	
NUR2 611	Policy Leadership in Nursing.	3	
NUR2 612	Research Methods in Nursing	3	
NUR2 616	Advanced Clinical Skills.	4	
NUR2 619	Nursing Clinical Skills Laboratory 4.	1	
NUR2 621	Wound Care 2.	2	
NUR2 623	Clinical Assessment and Therapeutics 1.	3	
NUR2 626	Professional Issues in Nursing.	3	
NUR2 634	Clinical Assessment and Therapeutics 2.	3	
NUR2 637	Clinical Nursing Specialization.	3	
NUR2 638	Nursing in Critical Care.	3	
NUR2 640	Clinical Reasoning.	3	
NUR2 642	Ethics in Advanced Practice.	3	

Complementary Courses (12 credits)

12 credits from one of the following streams.

Knowledge Translation Stream

Expand allContract all		
Course	Title	Credits
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 601	Applied Knowledge Translation in Healthcare 1.	6
NUR2 602	Applied Knowledge Translation in Healthcare 2 .	3

Research Stream

Expand allContract all		
Course	Title	Credits
NUR2 630	Research Project 1.	3
NUR2 631	Research Project 2.	6
NUR2 632	Research Project 3.	3

Nursing (Non-Thesis): Global Health Direct Entry (M.Sc.A.) (61 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 61

Program Description

The focus of the MSc(Applied) in Nursing; Non-Thesis - Global Health Direct Entry program is on providing collaborative, trauma-informed, and culturally safe care. A strengths-based nursing and health care approach is used to work with underserved populations in limited resources and rural environments. The program emphasizes health equity focused content. The program includes a semester spent in a Global Health Partnership site (locally, provincially, or internationally) that focuses on clinical and project-based work. The completion of

Required Courses (61 credits)

Expand allContract all

Course	Title	Credits
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
NUR2 515	Applied Statistics for Nursing.	3
NUR2 516	Perspectives on Global Health.	3
NUR2 606	Clinical Reasoning in a Global Context .	3
NUR2 607	Children's Nursing	3
NUR2 609	Nursing Care of Children and their Families.	3
NUR2 610	Ambulatory/Community Care.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 616	Advanced Clinical Skills.	4
NUR2 619	Nursing Clinical Skills Laboratory 4.	1
NUR2 621	Wound Care 2.	2
NUR2 626	Professional Issues in Nursing.	3
NUR2 630	Research Project 1.	3
NUR2 631	Research Project 2.	6
NUR2 632	Research Project 3.	3
NUR2 634	Clinical Assessment and Therapeutics 2.	3
NUR2 636	Global Health Nursing Internship.	3
NUR2 638	Nursing in Critical Care.	3
NUR2 642	Ethics in Advanced Practice.	3

Nurse Practitioner (Non-Thesis): Adult Care (M.Sc.A.) (45 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The Master of Science(Applied) in Nurse Practitioner; Non-Thesis - Adult Care is open to Bachelor's prepared nurses and is taken concurrently with the Graduate Diploma in Nurse Practitioner - Adult Care. This course of study is designed to prepare students to assume the full scope of Adult Care Nurse Practitioner practice. Adult Care Nurse practitioners provide advanced-practice nursing care (including performing assessments, forming medical impressions, providing treatments, and ensuring continuity of care) to the adult population with complex acute, chronic or critical health issues, requiring secondary and tertiary line of care. The program is built on a foundation of Strengths-Based Nursing care of individuals, families and communities.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
NUR2 515	Applied Statistics for Nursing.	3
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 618	Clinical in Family Systems Nursing 2.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR3 646	Advanced Adult Health Assessment.	6
NUR3 648	Clinical Seminar in Adult Care 1	1
NUR3 649	Clinical Seminar in Adult Care 2	1
NUR3 658	Adult Care Internship 1.	13

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 603	Teaching and Learning in Nursing .	3

Nurse Practitioner (Non-Thesis): Mental Health (M.Sc.A.) (45 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

** New Program. This program replaces the M.Sc.A. Nursing (Non-Thesis) : Mental Health Nurse Practitioner. **

The M.Sc.(A.) in Nurse Practitioner; Non-Thesis – Mental Health, in combination with the Graduate Diploma in Mental Health Nurse Practitioner, focuses on assessment, diagnosis, care and treatment of mental illness in primary, secondary and tertiary care settings.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
NUR2 515	Applied Statistics for Nursing.	3
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 618	Clinical in Family Systems Nursing 2.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR2 644	Pharmacology for Neonatal Nurse Practitioners.	3
NUR2 660	Reasoning in Neonatal Practice 1.	3
NUR2 661	Reasoning in Neonatal Practice 2.	6
NUR2 662	Neonatal Health Assessment.	3

Complementary Courses (3 credits)

3 credits from the following:

Course	Title	Credits
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 603	Teaching and Learning in Nursing .	3

Nurse Practitioner (Non-Thesis): Neonatal (M.Sc.A.) (45 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The Master of Science(Applied) in Nurse Practitioner; Non-Thesis - Neonatal, in conjunction with the Graduate Diploma Neonatal Nurse Practitioner, focuses on the multifaceted role of the neonatal nurse practitioner in a variety of acute, intermediate and critical care neonatal settings, including advanced assessment, clinical reasoning, diagnosis and other skills to enact the legislated scope of practice of the neonatal nurse practitioner. Students who complete the Neonatal Nurse practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Neonatal Nurse Practitioner specialty (licensing) examination.

Required Courses (45 credits)

Expand allContract all

Course	Title	Credits
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 618	Clinical in Family Systems Nursing 2.	3
NUR2 626	Professional Issues in Nursing.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR2 644	Pharmacology for Neonatal Nurse Practitioners.	3
NUR2 660	Reasoning in Neonatal Practice 1.	3
NUR2 661	Reasoning in Neonatal Practice 2.	6
NUR2 662	Neonatal Health Assessment.	3

NUR2 663	Reasoning in Neonatal Practice 3 .	6
NUR2 664	Evidence in Neonatal Practice .	3

Nurse Practitioner (Non-Thesis): Pediatric (M.Sc.A.) (45 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The Master of Science (Applied) in Nurse Practitioner; Non-Thesis-Pediatric, in conjunction with the Graduate Diploma Pediatric Nurse Practitioner, focuses on the multifaceted role of the pediatric nurse practitioner in a variety of acute, intermediate and critical care pediatric settings including advanced assessment, clinical reasoning, diagnosis and other skills to reflect the legislated scope of practice of the pediatric nurse practitioner. Students who complete the Pediatric Nurse Practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Pediatric Nurse Practitioner specialty certification examination.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR3 680	Reasoning in Pediatric and Children's Nursing 1.	4
NUR3 681	Reasoning in Pediatric and Children's Nursing 2.	6
NUR3 682	Reasoning in Pediatric and Children's Nursing 3.	4
NUR3 684	Reasoning in Pediatric and Children's Nursing 4.	10
NUR3 689	Pharmacology for Pediatric Nurse Practitioners.	3

Complementary Courses (3 credits)

Expand allContract all

Course	Title	Credits
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 603	Teaching and Learning in Nursing .	3
NUR2 626	Professional Issues in Nursing.	3

Nurse Practitioner (Non-Thesis): Primary Care (M.Sc.A.) (45 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Master of Science Applied

Program credit weight: 45

Program Description

** New Program. This program replaces the (M.Sc.A.) Nursing (Non-Thesis): Primary Care Practitioner. **

The Master of Science(Applied) Nurse Practitioner; Non-Thesis - Primary Care is open to nurses with a Bachelor of Science in Nursing degree and is taken in combination with the Graduate Diploma in Primary Care Nurse Practitioner. The program focuses on a wide range of acute and chronic health concerns across the life span and includes activities related to assessment, diagnosis and treatment within the primary care nurse practitioner's legally sanctioned scope of practice. Graduates may be eligible to be a candidate for the Ordre des infirmières et infirmiers du Québec's Primary Care Nurse Practitioner specialty examination.

Required Courses (42 credits)

Expand allContract all

Course	Title	Credits
NUR2 608	Seminar in Nursing.	3
NUR2 611	Policy Leadership in Nursing.	3
NUR2 612	Research Methods in Nursing	3
NUR2 617	Clinical in Family Systems Nursing 1.	3
NUR2 642	Ethics in Advanced Practice.	3
NUR3 670	Reasoning in Primary Care Practice 1.	4
NUR3 671	Reasoning in Primary Care Practice 2.	3
NUR3 672	Reasoning in Primary Care Practice 3.	8
NUR3 673	Primary Care Health and Physical Assessment 1	4
NUR3 674	Reasoning in Primary Care Practice 4.	6
NUR3 676	Primary Care Health and Physica IAssessment 2	2

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
NUR2 600	Knowledge Translation in Healthcare .	3
NUR2 603	Teaching and Learning in Nursing .	3
NUR2 626	Professional Issues in Nursing.	3

Adult Care Nurse Practitioner (Gr. Cert.) (21 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 21

Program Description

The Graduate Certificate in Nurse Practitioner - Adult Care is taken concurrently with the Graduate Diploma in Nurse Practitioner - Adult Care by students entering the program with a Master's of Nursing. This course of study is designed to prepare students to assume the full scope of Adult Care Nurse Practitioner practice. Adult Care Nurse practitioners provide advanced practice, including advanced-practice nursing care to the adult population with complex acute, chronic or critical health issues, requiring secondary and tertiary line of care. The program is built on a foundation of Strengths-Based Nursing care of individuals, families and communities.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
NUR3 646	Advanced Adult Health Assessment.	6
NUR3 648	Clinical Seminar in Adult Care 1	1
NUR3 649	Clinical Seminar in Adult Care 2	1
NUR3 658	Adult Care Internship 1.	13

Neonatal Nurse Practitioner (Gr. Cert.) (24 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 24

Program Description

The Graduate Certificate in Neonatal Nurse Practitioner, in conjunction with the Graduate Diploma in Neonatal Nurse Practitioner, is intended for those entering the program with a Master's of Nursing. The program focuses on the multifaceted role of the neonatal nurse practitioner in a variety of acute, intermediate and critical neonatal care settings. Throughout the program, the emphasis is on advanced assessment, clinical reasoning, diagnosis and other skills to enact the full legislated scope of practice. The program is structured to focus on the ability to function as an educator, consultant, collaborator and leader. Students who complete the Neonatal Nurse Practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Neonatal Nurse Practitioner specialty (licensing) examination.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
NUR2 644	Pharmacology for Neonatal Nurse Practitioners.	3
NUR2 660	Reasoning in Neonatal Practice 1.	3
NUR2 661	Reasoning in Neonatal Practice 2.	6
NUR2 662	Neonatal Health Assessment.	3

NUR2 663	Reasoning in Neonatal Practice 3.	6
NUR2 664	Evidence in Neonatal Practice .	3

Mental Health Nurse Practitioner (Gr. Cert.) (21 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 21

Program Description

The Graduate Certificate in Mental Health Nurse Practitioner, in combination with the Graduate Diploma in Mental Health Nurse Practitioner, focuses on the competencies required to assume the advanced practice nursing role of the mental health nurse practitioner, including the assessment, diagnosis, care and treatment of mental illness in primary, secondary and tertiary care settings.

Required Courses (21 credits)

Course	Title	Credits
NUR3 656	Mental Health Internship 1.	12
NUR3 690	Reasoning in Mental Health 1.	3
NUR3 694	Reasoning in Mental Health 5.	3
NUR3 699	Pharmacology for Mental Health Nurse Practitioners.	3

Pediatric Nurse Practitioner (Gr. Cert.) (27 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 27

Program Description

The Graduate Certificate in Pediatric Nurse Practitioner is completed in conjunction with the Graduate Diploma in Pediatric Nurse Practitioner [for those entering the program with a Master of Nursing]. The program focuses on the multifaceted role of the pediatric nurse practitioner (PNP) in a variety of acute, intermediate and critical care pediatric settings. Emphasis on advanced assessment, clinical reasoning, diagnosis and other skills related to reflect the full legislated scope of PNP practice. The program is structured to focus on the ability to function as a clinician, educator, consultant, collaborator and leader. Students who complete the Pediatric Nurse Practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Pediatric Nurse Practitioner specialty certification examination.

Required Courses (27 credits)

Course	Title	Credits
NUR3 680	Reasoning in Pediatric and Children's Nursing 1.	4
NUR3 681	Reasoning in Pediatric and Children's Nursing 2.	6

NUR3 682	Reasoning in Pediatric and Children's Nursing 3.	4
NUR3 684	Reasoning in Pediatric and Children's Nursing 4.	10
NUR3 689	Pharmacology for Pediatric Nurse Practitioners.	3

Primary Care Nurse Practitioner (Gr. Cert.) (27 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 27

Program Description

The Graduate Certificate in Primary Care Nurse Practitioner is open to nurses who have previously completed a Master of Science in Nursing and is taken in combination with the Graduate Diploma in Primary Care Nurse Practitioner. This program focuses on a wide range of acute and chronic health concerns across the life span and includes activities related to assessment, diagnosis and treatment within the primary care nurse practitioner's legally sanctioned scope of practice. Graduates may be eligible to be a candidate for the Ordre des infirmières et infirmiers du Québec's Primary Care Nurse Practitioner certification examination.

Required Courses (27 credits)

Course	Title	Credits
NUR3 670	Reasoning in Primary Care Practice 1.	4
NUR3 671	Reasoning in Primary Care Practice 2.	3
NUR3 672	Reasoning in Primary Care Practice 3.	8
NUR3 673	Primary Care Health and Physical Assessment 1	4
NUR3 674	Reasoning in Primary Care Practice 4.	6
NUR3 676	Primary Care Health and Physica lAssessment 2	2

Adult Care Nurse Practitioner (Gr. Dip.) (30 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma complements the Master of Science(Applied) in Nurse Practitioner; Non-Thesis - Adult Care concentration and fulfills the requirements for entry-to-practice as an Adult Care NP as per the Ordre des infirmières et infirmiers du Québec (OIQ). The Graduate Diploma and the MSc(A) are taken concurrently by students entering the program with a Bachelor's Degree. Students entering the program already having completed a Master's in nursing degree take the Graduate Diploma and Graduate Certificate Nurse Practitioner - Adult Care concurrently. The admission requirements for this concentration are the same as those for our existing NP programs: a Bachelor's or Master's degree in Nursing (comparable to those offered at McGill); a minimum GPA of 3.2 on a scale of 4.0 in previous nursing studies; and 3360 hours of nursing experience in the specialty (i.e. acute adult

care). Please see the Executive Summary document for additional information.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
NUR3 643	Reasoning in Adult Care 1.	3
NUR3 644	Reasoning in Adult Care 2.	4
NUR3 645	Reasoning in Adult Care 3.	6
NUR3 647	Reasoning in Adult Care 4.	6
NUR3 659	Adult Care Internship 2	11

Mental Health Nurse Practitioner (Gr. Dip.) (30 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Mental Health Nurse Practitioner, in combination with the M.Sc.(A.) in Nurse Practitioner; Non-Thesis - Mental Health or with the Graduate Certificate in Mental Health Nurse Practitioner, focuses on the competencies required to assume the advanced practice nursing role of the mental health nurse practitioner, including the assessment, diagnosis, care and treatment of mental illness in primary, secondary and tertiary care settings.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
NUR3 657	Mental Health Internship 2.	12
NUR3 691	Reasoning in Mental Health 2.	6
NUR3 692	Reasoning in Mental Health 3.	6
NUR3 693	Reasoning in Mental Health 4.	6

Neonatal Nurse Practitioner (Gr. Dip.) (30 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Neonatal Nurse Practitioner, in conjunction with either the M.Sc.(A) in Nurse Practitioner; Non-Thesis - Neonatal (for those entering the program with a Bachelor's in Nursing) or the Graduate Certificate in Neonatal Nurse Practitioner (for those entering the program with a Master's in Nursing), focuses on the multifaceted role of the neonatal nurse practitioner in a variety of acute, intermediate and critical care neonatal settings, including advanced assessment, clinical reasoning, diagnosis and other skills to enact the full-legislated scope of practice. Students who complete

the Neonatal Nurse practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Neonatal Nurse Practitioner specialty (licensing) examination.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NUR3 665	Common Procedures in Neonatal Practice.	3
NUR3 667	Clinical Seminar in Neonatal Practice.	2
NUR3 668	Internship in Neonatal Practice 1.	12
NUR3 669	Internship in Neonatal Practice 2 .	13

Pediatric Nurse Practitioner (Gr. Dip.) (30 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Pediatric Nurse Practitioner, in conjunction with either the M.Sc.(A.) in Nurse Practitioner ; NonThesis - Pediatric (for those entering the program with a Bachelor's in Nursing) or the Graduate Certificate in Pediatric Nurse Practitioner (for those entering the program with a Master in Nursing), focuses on the multifaceted role of the pediatric nurse practitioner in a variety of acute, intermediate and critical care pediatric settings including advanced assessment, clinical reasoning, diagnosis and other skills related to reflect the full legislated scope of Pediatric Nurse Practitioner practice. Students who complete the Pediatric Nurse Practitioner program are eligible to write the Ordre des infirmières et infirmiers du Québec's Pediatric Nurse Practitioner specialty certification examination.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NUR3 654	Internship in Pediatric and Children's Nursing 1	12
NUR3 655	Internship in Pediatric and Children's Nursing 2	12
NUR3 683	Children and Youth Health Assessment 1.	2
NUR3 685	Children and Youth Health Assessment 2.	2
NUR3 686	Clinical Seminar in Pediatric and Children's Nursing 1	1
NUR3 687	Clinical Seminar in Pediatric and Children's Nursing 2	1

Primary Care Nurse Practitioner (Gr. Dip.) (30 credits)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Program credit weight: 30

Program Description

The Graduate Diploma in Primary Care Nurse Practitioner, taken in conjunction with either the M.Sc.(A.) in Nurse Practitioner; Non-Thesis – Primary Care (for those entering the program with a Bachelor of Science in Nursing) or the Graduate Certificate in Primary Care Nurse Practitioner (for those entering the program with a Master of Science in Nursing), focuses on a wide range of acute and chronic health concerns across the life span and includes activities related to assessment, diagnosis and treatment within the primary care nurse practitioner's legally sanctioned scope of practice.

Graduates may be eligible to be a candidate for the Ordre des infirmières et infirmiers du Québec's Primary Care Nurse Practitioner certification examination.

Required Courses (30 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
NUR3 652	Internship in Primary Care Practice 1	12
NUR3 653	Internship in Primary Care Practice 2.	12
NUR3 675	Applied Reasoning in Primary Care.	4
NUR3 677	Clinical Seminar in Primary Care 1	1
NUR3 678	Clinical Seminar in Primary Care 2	1

Nursing (Ph.D.)

Offered by: Ingram School of Nursing (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D in Nursing focuses on the advancement of knowledge, practice, and education in Nursing.

A student who has obtained a master's degree at McGill University or at an approved institution elsewhere may, on the recommendation of the School, be registered in the second year of the Ph.D. program.

Each student's program is designed with the thesis supervisor taking into account the student's previous academic preparation, needs, and research interests.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits	
NUR2 701	Comprehensive Examination.	0	in Quebec. For confirmation, contact the Canadian Alliance of Physiotherapy Regulators (refer to Professional Organizations below).
NUR2 702	Quantitative Research.	3	
NUR2 706	Qualitative Nursing Research.	3	
NUR2 711	PhD Seminar 1.	1	
NUR2 712	PhD Seminar 2.	1	
NUR2 713	PhD Seminar 3.	1	The Occupational Therapy program is accredited by the Canadian Association of Occupational Therapists.
NUR2 730	Theory Development in Nursing.	3	

Complementary Courses (6 credits)

6 credits of courses at the 500 level or higher chosen in consultation with the thesis supervisor.

Becoming a Licensed Occupational or Physical Therapist

The Undergraduate programs in Physical and Occupational Therapy provide access to the professional master's programs in the same discipline. For more information on our graduate programs, refer to the School of Physical and Occupational Therapy's graduate section of the eCalendar, and the School website's graduate Occupational Therapy and Physical Therapy sections.

Licensing Regulations

Graduates who complete the Master of Science (Applied) in Occupational Therapy (M.Sc.A.OT.) or the Master of Science (Applied) in Physical Therapy (M.Sc.A.PT.) degree are eligible to seek licensure. Graduates from McGill may seek licensure worldwide. Each country, province, or state sets its own requirements for licensure which may necessitate examination, further course work, and/or the TOEFL. Those intending to practice occupational therapy or physical therapy within their borders must comply with special provincial or state licensing regulations.

Further information regarding Canadian requirements may be obtained from the offices of the associations listed under Professional Organizations below.

In order to practice occupational therapy or physical therapy in the province of Quebec, a permit must be obtained from the appropriate provincial regulatory body. Quebec law also requires that candidates seeking admission to the provincially recognized Quebec regulatory bodies must possess a working knowledge of the French language—i.e., be able to communicate verbally and in writing in that language. For further information, refer to Language Requirements for Professions.

Occupational therapists practising in Canada (except Quebec) are required to pass a National Certification Examination after graduation. For information, contact the *Canadian Association of Occupational Therapists* (refer to Professional Organizations below).

As of 1993, all Physical Therapy graduates who wish to practice in provinces in Canada (other than Quebec) are required to pass a Physiotherapy National Examination or provide proof of licensing

Program Accreditation

The Professional Master's program has received accreditation status by Physiotherapy Education Accreditation Canada.

The Occupational Therapy program is accredited by the Canadian Association of Occupational Therapists.

Professional Organizations

Canadian National Offices

Canadian Association of Occupational Therapists
103-2685 Queensview Drive
Ottawa, ON K2B 8K2 Canada
Telephone: 613-523-CAOT(2268); 1-800-434-CAOT(2268) (toll-free)
Website: caot.ca

Canadian Physiotherapy Association
National Office
955 Green Valley Crescent, Suite 270
Ottawa ON K2C 3V4
Telephone: 613-564-5454; 1-800-387-8679 (toll free)
Email: information@physiotherapy.ca
Website: physiotherapy.ca

Canadian Alliance of Physiotherapy Regulators
1243 Islington Avenue, Suite 501
Toronto ON M8X 1Y9
Telephone: 416-234-8800
Website: alliancept.org

Quebec Provincial Offices

Ordre des ergothérapeutes du Québec
2021 avenue Union, bureau 920
Montreal QC H3A 2S9
Telephone: 514-844-5778; 1-800-265-5778 (toll free)
Email: ergo@oeq.org
Website: oeq.org

Ordre professionnel de la physiothérapie du Québec
7151 rue Jean-Talon est, bureau 700
Anjou QC H1M 3N8
Telephone: 514-351-2770; 1-800-361-2001 (toll free)
Email: physio@oppq.qc.ca
Website: oppq.qc.ca

International Offices

Please check websites of individual countries and states for specific licensing requirements.

Student Evaluation and Promotion

Degree Requirements for the Master of Science (Applied) – Occupational Therapy (M.Sc.A.OT.), and the Master of Science (Applied) – Physical Therapy (M.Sc.A.PT.)

To enter professional practice, students must complete an M.Sc.A. in Occupational Therapy (OT) or Physical Therapy (PT). Therefore, graduates of the Bachelor of Science in Rehabilitation (OT or PT) must continue to the M.Sc.A.OT. or M.Sc.A.PT. programs to qualify for professional practice.

Students who graduate with the B.Sc. Rehab.Sc. degree with the required cGPA of 3.0 or better will be considered for acceptance into the same discipline of the Master of Science (Applied) program that commences in the summer following graduation. For full details, refer to the Rules and Regulations documents on the Master of Science (Applied) in Physical Therapy page.

Entry to the M.Sc.A.OT. or M.Sc.A.PT. requires students to have a minimum cGPA of 3.0. Even when the cGPA requirement is attained, the Occupational Therapy Promotions and Review Committee (OTPRC) or the Physical Therapy Promotion and Review Committee (PTPRC) may recommend that a student not be admitted to the Master's program if, during the Bachelor's program:

1. the student has had three or more documented performance deficiencies (flags), with or without probationary status; or
2. the student has not progressed sufficiently toward achievement of the required skills and attributes for entry to practice.

Students from McGill or elsewhere who do not hold the B.Sc.Rehab.Sc. - Major in Occupational or Physical Therapy degree must apply to the Master's program via a graduate Qualifying Year, or have the option to first apply to the undergraduate degree of B.Sc.Rehab.Sc. - Major in OT or PT and proceed to the M.Sc.A. degree in the same discipline.

For further details and other requirements, please refer to the Graduate and Postdoctoral Studies School of Physical and Occupational Therapy section. For complete admissions information, refer to mcgill.ca/spot/programs/admissions.

Student Evaluation and Promotion for M.Sc.A. in Occupational Therapy and Physical Therapy

Academic matters are the jurisdiction of the Occupational Therapy Promotion and Review Committee (OTPRC) or the Physical Therapy Promotion and Review Committee (PTPRC). The OTPRC and the PTPRC review the academic record, professional conduct, and general performance of students throughout the Occupational Therapy and Physical Therapy programs. It exercises final authority to determine a student's competence and suitability for the practice of occupational therapy or physical therapy and, hence, makes final decisions on all matters relating to promotion and graduation.

For complete rules and regulations regarding student promotions, along with the below resource documents, refer to the following School of Physical and Occupational Therapy program documents on the Master of Science (Applied) in Occupational Therapy page:

- Important Information for Students
- Rules and Regulations
- Curriculum
- Code of Conduct
- Essential Skills and Attributes
- Process-McGill's Office for Student Accessibility and Achievement
- Resources for learners

Students in Occupational Therapy or Physical Therapy must successfully complete a total of 30 credits in the Qualifying Year (QY) in Occupational Therapy or Physical Therapy, or have obtained the B.Sc.Rehab.Sc. - Major Occupational Therapy or Physical Therapy followed by 63 credits (OT Program) or by 62 credits (PT Program) in the corresponding M.Sc.A. degree. They must successfully complete all courses in the respective M.Sc.A. curricula and be in Satisfactory Standing to obtain the degree of M.Sc.A.OT. or PT.

Due to the sequential nature of the programs, the Occupational Therapy and Physical Therapy programs are full-time programs of study. Exceptions may be possible provided that students have obtained written permission from the Promotions and Review Committee to register part-time. Further information on the curriculum is available at mcgill.ca/spot/programs/ot/curriculum for OT curriculum or at mcgill.ca/spot/programs/pt/curriculum for PT curriculum.

Students enrolled full-time in the M.Sc.A.OT. or PT. program must complete all degree requirements within three years of the date of initial registration in this program. In the situation of part-time studies, degree requirements must be completed within five years of the date of initial registration. Please consult McGill's Graduate and Postdoctoral Studies page for Time Limitation Policy.

The School's assessment and promotions and review policies are multi-faceted, and under constant review by the School of Physical and Occupational Therapy. The School reserves the right to change rules and regulations at any time, although in general such changes will not come into effect in the middle of an academic year or promotion period. For complete information about the School's rules and regulations, refer to the Important documents at mcgill.ca/spot/programs/ot/master-science-applied-occupational-therapy and mcgill.ca/spot/programs/pt/professional-masters.

You must successfully complete all the requirements of each promotion period before being permitted to enter the next promotion period. In order to be promoted to the next promotion period, a student must successfully complete all professional courses in each promotion period, as well as all requirements for inter-professional education courses.

The required minimum passing grade is a B- (65%) for all courses with the designation of OCC1, PHTH, and POTH. As well, for any course with the designation of OCC1, PHTH, or POTH, which comprises both individual and group evaluations, or both theoretical and practical evaluations, each student must pass every component in order to receive a passing grade for the course (the minimum passing grade is a B- (65%)).

Note: Courses with a Subject Code OCC1, PHTH, or POTH are reserved for students enrolled in programs within the School of Physical and Occupational Therapy.

No evaluation, examination mark, etc. shall be considered final until approved by the OTPRC or the PTPRC and is recorded on the student's official transcript. Only final grades submitted on Minerva are the official McGill grades. *myCourses* (McGill's Learning Management system) is a tool but not the source for final grades.

For the purposes of evaluation, the curriculum is broken down into the following promotion periods:

QY (Qualifying Year):

- Promotion Period 1 Fall September–December
- Promotion Period 2 Winter January–April

M1 and M2 (Master Years 1 and 2):

- Promotion Period 1 M1 Summer May–August
- Promotion Period 2 M1 Fall September–December
- Promotion Period 3 M1 Winter January–April
- Promotion Period 4 M2 Fall—program completion (includes summer research project)

Failure Policy, Withdrawal, or Dismissal from the School of Physical and Occupational Therapy

When a student has failed one course, or one or more course components, or has been found to have been engaged in unethical or inappropriate conduct (i.e., unprofessional behaviour), the OTPRC or the PTPRC will automatically review the student's entire academic record and general performance.

A student will be withdrawn from the University, if the student fails two courses (i.e., two different courses, one failed course, plus a failed repeat of the same course or one failed course and a failed supplemental exam for that course). The student's transcript will thereafter indicate that the student was withdrawn from the University.

Failing a course in a Qualifying Year is equivalent to failing a course in a graduate program, and counts as a first failed course if a student is subsequently admitted to a graduate program in a related field. For full details, refer to the Failure Policy.

Academic offences such as plagiarism and cheating on examinations and unethical or inappropriate conduct are considered serious offences which could lead to dismissal from the program.

A student who engages in criminal activity and/or who is found guilty of having violated the criminal code will have their dossier referred to the OTPRC or the PTPRC; this may be considered evidence of unsuitability for the practice of occupational therapy or physical therapy and grounds for dismissal from the program.

The School has the right to dismiss, at any time, any student who is considered incompetent and/or unsuitable for the practice of occupational therapy or physical therapy.

Examinations

General Information

Please refer to the Policy on Assessment of Student Learning (PASL) (available on the Secretariat website) as well to the

Rules and Regulations document at mcgill.ca/spot/programs/ot/ /master-science-applied-occupational-therapy and mcgill.ca/spot/programs/pt/professional-masters and Academic Integrity, Standards of Behaviour and Code of Conduct, and Examination Facilities for Students with Disabilities.

Supplemental Examinations

Supplemental examinations may be permitted by the OTPRC or PTPRC and are examinations taken as a consequence of a failure or unsatisfactory outcome in a course. The timing of the supplemental examinations for failed Fall term and Winter term courses with the designation of OCC1, PHTH, or POTH will be determined by the course instructor and may be held within 30 days of the posting of final grades, if feasible, or during the official supplemental examination periods. It should be noted that the supplemental exam result will not erase the failed grade originally obtained and used in calculating the GPA. Both the original and supplemental exam marks will be calculated in the GPA and cGPA. For more information, please refer to Rules and Regulations at Occupational Therapy or Physical Therapy, and to Exams, as well as to Failure Policy in Graduate Studies.

Deferred Examinations

Deferred final examinations are examinations rescheduled because the original examination was missed for valid reasons. Deferring an exam is an exceptional measure and is meant to help students who are severely ill or dealing with unforeseeable, significant extenuating circumstances.

Students, who for serious reasons—such as valid health reason or family or personal crises—have not written one or more examinations, may receive the permission of the Program Director or delegate to defer the examination to the next deferred examination period. The student may be required to provide written documentation or additional information, as appropriate, before the deferral is approved. The Student Affairs Office and the Program Director or a delegate must be informed by the student as soon as possible after the examination of the reason for their absence from the examination, and the supporting documentation must be received no later than one (1) week after the examination date, as applicable. Please refer to details in Rules and Regulations at Occupational Therapy or Physical Therapy and to University Regulations and Resources.

Note: No supplemental examinations are available for students who did not receive the required passing grade in a course after writing a deferred examination.

Rehabilitation Science (Thesis) (M.Sc.) (45 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Rehabilitation Science; Thesis program focuses on interdisciplinary research related to health and rehabilitation. The program provides training in the use of methodologies for knowledge synthesis and for designing and conducting research studies in rehabilitation. A major component of the program is the development and implementation of an individualized thesis project in a specialized

area of interest in health and rehabilitation (e.g., brain, education, global health, musculoskeletal, heart and lung, mental health and pain).

Thesis Courses (29 credits)

Expand allContract all

Course	Title	Credits
POTH 696	Thesis Research.	2
POTH 697	Thesis Research 1.	6
POTH 698	Thesis Research 2.	9
POTH 699	Thesis Research 3.	12

Required Courses (10 credits)

Expand allContract all

Course	Title	Credits
POTH 609	Qualitative Research in Rehabilitation Science.	3
POTH 610	Research Methodology.	4
POTH 614	Selected Topics in Rehabilitation Science.	3
POTH 617	Knowledge Synthesis in Rehabilitation Seminar.	0

Complementary Courses (3 credits)

3 credits of the following:

Expand allContract all

Course	Title	Credits
POTH 628	Introduction to Regression Analysis.	3

Or 3 credits of advanced qualitative methodology chosen from courses offered by the School at the 500, 600, or 700 level in consultation with the Graduate Program Director.

Elective Course (3 credits)

3 credits that pertain to the student's area of specialization: to be chosen from the School course offerings or other courses at the 500, 600, or 700 level with permission from the Graduate Program Director.

Rehabilitation Science (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Rehabilitation Science; Non-Thesis program focuses on evidence-based practice in rehabilitation science. The program provides exposure to methodologies for knowledge synthesis and for designing a research study in rehabilitation, and practical experience by participating in a directed project.

Required Courses (25 credits)

Expand allContract all

Course	Title	Credits
POTH 610	Research Methodology.	4
POTH 614	Selected Topics in Rehabilitation Science.	3
POTH 617	Knowledge Synthesis in Rehabilitation Seminar.	0
POTH 628	Introduction to Regression Analysis.	3
POTH 661	Research Project 1.	7
POTH 662	Research Project 2.	8

Complementary Courses (20 credits)

20 credits of courses that pertain to the student's area of specialization; to be chosen from the School course offerings or other courses at the 500, 600 or 700 level with permission from the Graduate Program Director.

Physical Therapy (Non-Thesis) (M.Sc.A.PT.) (62 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: Master of Sci Appl, Phys Ther

Program credit weight: 62

Program Description

The M.Sc.(Applied) in Physical Therapy; Non-Thesis is to be completed in 1.5 graduate years over five semesters, and includes four clinical practica of 1,050 hours in total, leading to professional licensure to practice. The educational approach is consistent with adult learning, self-directed learning, reflective clinical practice, and inter-professionalism. Strong links between academic and clinical fieldwork education are emphasized. Emphasis is on client-centred and evidence-based practice across the lifespan and health care continuum, including health promotion from prevention of disability to rehabilitation. In addition to fieldwork, the program includes advanced clinical practice, research methodology, and educational methodology. The program may be completed in 61 or 62 credits.

Required Courses (55 credits)

Expand allContract all

Course	Title	Credits
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
PHTH 571	PT Clinical Practicum 1.	6
PHTH 572	PT Clinical Practicum 2.	6
PHTH 573	PT Clinical Practicum 3.	7
PHTH 606	Introduction to Pediatric Physical Therapy.	3
PHTH 620	PT Clinical Practicum 4.	7
PHTH 622	Integrated Pain Management.	3
PHTH 623	Differential Diagnosis and Management.	4
PHTH 652	Integrated Clinical Exercise Rehabilitation.	3

POTH 602	Advanced Educational and Management Strategies.	3	and professionalism. The Master's project focuses on research skills and scholarly contribution to health care delivery or clinical education.
POTH 612	Applied Clinical Research Methods.	4	
POTH 624	Master's Project.	7	
POTH 682	Promoting Healthy Activity.	2	

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all		
Course	Title	Credits
PHTH 645	Pelvic Floor Rehabilitation.	3
PHTH 661	Sport Physiotherapy.	3
PHTH 662	Advanced Manual Therapy.	3
POTH 508	Plasticity in Rehabilitation.	3
POTH 604	Current Topics in Pediatrics.	3
POTH 625D1	Design of Assistive Technologies: Principles. ¹	1.5
POTH 625D2	Design of Assistive Technologies: Principles. ¹	1.5
POTH 636	Physical Therapy in Pediatrics.	3
POTH 637	Cancer Rehabilitation.	3
POTH 639	Motor Control.	3
POTH 685	Perception and Action.	3

¹ If chosen, students must complete both POTH 625D1 Design of Assistive Technologies: Principles. and POTH 625D2 Design of Assistive Technologies: Principles.

Elective Course (0-1 credit)

0 or 1 credit may be taken at the 500 level or higher upon consultation with the Physical Therapy Program Director.

Occupational Therapy (Non-Thesis) (M.Sc.A.OT.) (63 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: Master of Sci Appl, Occ Ther

Program credit weight: 63

Program Description

The Master of Science(Applied) in Occupational Therapy; Non-Thesis is a professional program that may lead to eligibility for licensure to practice as an Occupational Therapist. It is a 63-credit degree program that includes 1000 hours of fieldwork education over five semesters. The educational approach is consistent with adult learning and reflective clinical practice. The curriculum uses a case-based, problem-solving, self-directed approach across the lifespan. Strong links between academic and clinical fieldwork education are emphasized throughout the educational process. Focus on client-centered and evidence-informed practice, clinical reasoning, ethics

Required Courses (60 credits)

Expand allContract all

Course	Title	Credits
IPEA 502	Partnership in Interprofessional Teams	0
IPEA 503	Managing Interprofessional Conflict.	0
OCC1 501	Clinical Practicum 1.	7
OCC1 502	Clinical Practicum 2.	7
OCC1 503	Clinical Practicum 3.	8
OCC1 600J1	Clinical Practicum Seminars.	0
OCC1 600J2	Clinical Practicum Seminars.	0
OCC1 600J3	Clinical Practicum Seminars.	0
OCC1 602	Clinical Practicum 4.	7
OCC1 617	Occupational Solutions 2.	6
OCC1 618	Applied OT: Psychosocial Theory.	5
OCC1 620	Work/Ergonomics.	3
OCC1 622	Community-Based OT.	3
OCC1 623	Assistive Technology.	3
POTH 612	Applied Clinical Research Methods.	4
POTH 624	Master's Project.	7

Complementary Courses (3 credits)

3 credits chosen from the following courses offered by the School. With permission from the Academic Director, students may take courses offered at the 500 or 600 levels by other departments at McGill.

Expand allContract all

Course	Title	Credits
OCC1 625	Functional Environments.	3
OCC1 626	Mental Health: Child and Youth.	3
POTH 625D1	Design of Assistive Technologies: Principles. ¹	1.5
POTH 625D2	Design of Assistive Technologies: Principles. ¹	1.5
POTH 627	Enabling Eating, Drinking, and Swallowing.	3
POTH 632	Research Elective.	3
POTH 634	Childhood Performance Issues.	3
POTH 635	Enabling Upper Extremity Function.	3
POTH 636	Physical Therapy in Pediatrics.	3
POTH 637	Cancer Rehabilitation.	3
POTH 638	Promoting Wellness of Seniors.	3
POTH 640	Role-Emerging Management.	3

¹ If selected, students must take both POTH 625D1 Design of Assistive Technologies: Principles. and POTH 625D2 Design of Assistive Technologies: Principles..

NOTE: Interprofessional Education Activities (IPEAs)

These required non-credit activities address the competencies for interprofessional practice across the health professions such as professional roles, communication, collaboration in patient-centered care, and conflict resolution. Students will be advised at the beginning of each term which activities they should register for.

Rehabilitation Science (Ph.D.)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Rehabilitation Science provides training and intensive experience in clinical research related to health and rehabilitation by asking the right questions through research design, analysis, interpretation and presentation of results. The program includes a comprehensive exam, research proposal, thesis and an oral defense.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (13 credits)

Expand allContract all

Course	Title	Credits
POTH 609	Qualitative Research in Rehabilitation Science.	3
POTH 610	Research Methodology.	4
POTH 614	Selected Topics in Rehabilitation Science.	3
POTH 631	Research Proposal.	3
POTH 701	Ph.D. Comprehensive.	0

Complementary Course (6 credits)

One of the following courses:

Expand allContract all

Course	Title	Credits
POTH 620	Measurement: Rehabilitation 1.	3
POTH 630	Measurement: Rehabilitation 2.	3

Or 3 credits of advanced qualitative methodology to be chosen from the School course offerings or other courses at the 500, 600, or 700 level with permission from the Graduate Program Director.

3 credits from the following:

Expand allContract all

Course	Title	Credits
POTH 628	Introduction to Regression Analysis.	3

Or 3 credits of advanced qualitative methodology to be chosen from the School course offerings or other courses at the 500, 600, or 700 level with permission from the Graduate Program Director.

Elective Courses (3-6 credits)

3-6 credits of School course offerings, at the 500, 600, or 700 level, that pertain to the student's area of specialization, to be chosen in consultation with the Graduate Program Director.

Driving Rehabilitation (Gr. Cert.) (15 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Program credit weight: 15

Program Description

The Graduate Certificate in Driving Rehabilitation is a course-based program of 15 credits. The program focuses on the knowledge and skills necessary to offer the full spectrum (screening, evaluation, vehicle adaptation and training) of driving rehabilitation services to diverse client populations. The theoretical content is offered online with synchronous and asynchronous course activities, on a part-time basis, in combination with on-site training to integrate theory into practice. The program can be completed in 18 months to 2 years.

Required Courses (15 credits)

Expand allContract all

Course	Title	Credits
POTH 673	Screening for at Risk Drivers.	3
POTH 674	Assessing Driving Ability 1.	3
POTH 675	Driving Assessment Practicum.	3
POTH 676	Adaptive Equipment and Driving.	3
POTH 677	Retraining Driving Skills.	3

Note: POTH 673 Screening for at Risk Drivers. and POTH 674 Assessing Driving Ability 1. are offered online, whereas POTH 675 Driving Assessment Practicum., POTH 676 Adaptive Equipment and Driving., and POTH 677 Retraining Driving Skills. have both online components and intensive workshops.

Chronic Pain Management (Gr. Cert.) (15 credits)

Offered by: Phys and Occ Therapy (Faculty of Medicine and Health Sciences)

Program credit weight: 15

Program Description

The Graduate Certificate in Chronic Pain Management is an interdisciplinary course-based program of 15 credits. The program focuses on a theoretical knowledge base in the most recent evidence-based neuroscientific and behavioural perspectives of chronic pain, advanced practice skills in the evaluation and assessment of chronic

pain conditions and how to manage clinical chronic pain conditions with an interdisciplinary perspective and the biopsychosocial approach. The program is offered online with synchronous and asynchronous course activities, on a part-time basis, and can be completed within 2.5 years.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
POTH 663	Pain Assessment in Clinical Practice.	3
POTH 664	Neuroscience and Behavioural Perspectives of Pain.	3
POTH 665	Interdisciplinary Management of Chronic Pain.	3
POTH 666	Common Clinical Pain Syndromes.	3

Complementary Courses (3 credits)

One of:

Expand allContract all

Course	Title	Credits
POTH 603	Directed Practicum.	3
POTH 618	Topics in Rehabilitation.	3

or another 500-level or higher course (online or not) from a different university, as approved by the Graduate Certificate Program Chair.

NOTE: POTH 603 Directed Practicum. and POTH 618 Topics in Rehabilitation. are not online courses. They are directed tutorial courses that need pre-approval from the Graduate Certificate Program Chair. Students are encouraged to plan such courses with the instructor at least one semester before intended enrolment. For a complementary course at a different university, consult university regulation and resources for further information on transfer credits prior to enrolment.

Atmospheric and Oceanic Sciences (Thesis) (M.Sc.) (45 credits)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) in Atmospheric and Oceanic Sciences is a comprehensive, research-driven program, focusing on topics related to climate dynamics, atmospheric chemistry, physical oceanography, weather forecasting, climate change impacts, air-sea interactions, and polar sciences. This program offers training on effective data collection, research methods, and the effective communication of scientific ideas. The program can be completed in the standard two years.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
ATOC 691	Master's Thesis Literature Review.	3
ATOC 692	Master's Thesis Research 1.	6
ATOC 694	Master's Thesis Progress Report and Seminar.	3
ATOC 699	Master's Thesis.	12

Although registration is not required, students registered in M.Sc. programs are expected to regularly attend one of the student seminar series (ATOC 751D1 Seminar: Atmosphere and Ocean./ATOC 751D2 Seminar: Atmosphere and Ocean. or ATOC 752D1 Atmospheric, Oceanic and Climate Dynamics./ATOC 752D2 Atmospheric, Oceanic and Climate Dynamics.) and the Department seminar series during the entire period of their enrolment in the program.

Complementary Courses (21 credits)

Must complete or have completed the following courses or equivalent:

Expand allContract all

Course	Title	Credits
ATOC 512	Atmospheric and Oceanic Dynamics.	3
ATOC 513	Waves and Stability.	3
ATOC 515	Turbulence in Atmosphere and Oceans.	3
ATOC 519	Advances in Chemistry of Atmosphere. ¹	3
ATOC 521	Cloud Physics.	3
ATOC 525	Atmospheric Radiation.	3
ATOC 531	Dynamics of Current Climates.	3
ATOC 540	Synoptic Meteorology 1.	3
ATOC 541	Synoptic Meteorology 2.	3
ATOC 548	Mesoscale Meteorology.	3
ATOC 568	Ocean Physics.	3
ATOC 626	Atmospheric/Oceanic Remote Sensing. ¹	3
CHEM 519	Advances in Chemistry of Atmosphere.	3

¹ Students may select either ATOC 519 Advances in Chemistry of Atmosphere. or CHEM 519 Advances in Chemistry of Atmosphere..

Or other courses at the 500 level or higher recommended by the Department's Graduate Program Director.

Students with a strong background in atmospheric or oceanic science, or a Diploma in Meteorology, will take at least the 7-credit minimum. Students with no previous background in atmospheric or oceanic science must take the 20-credit maximum.

Atmospheric and Oceanic Sciences (Ph.D.)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show

familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
ATOC 700	Ph.D. Proposal Seminar.	1
ATOC 701	Ph.D. Comprehensive (General).	0

Complementary Courses (7 credits)

Students are required to take ATOC 751D1 Seminar: Atmosphere and Ocean, and ATOC 751D2 Seminar: Atmosphere and Ocean. OR ATOC 752D1 Atmospheric, Oceanic and Climate Dynamics, and ATOC 752D2 Atmospheric, Oceanic and Climate Dynamics.

1 credit from:

Expand allContract all

Course	Title	Credits
ATOC 751D1	Seminar: Atmosphere and Ocean.	0.5
ATOC 751D2	Seminar: Atmosphere and Ocean.	0.5
ATOC 752D1	Atmospheric, Oceanic and Climate Dynamics.	0.5
ATOC 752D2	Atmospheric, Oceanic and Climate Dynamics.	0.5

6 credits from the Department of Atmospheric and Oceanic Sciences, at the 500 or 600 level, as approved by the department Graduate Program Director.

Atmospheric and Oceanic Sciences: Environment (Ph.D.)

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)
Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Ph.D. in Atmospheric and Oceanic Sciences; Environment is a research program operated in collaboration with the School of Environment. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend

the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
ATOC 700	Ph.D. Proposal Seminar.	1
ATOC 701	Ph.D. Comprehensive (General).	0
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (13 credits)

Students are required to take ATOC 751D1 Seminar: Atmosphere and Ocean, and ATOC 751D2 Seminar: Atmosphere and Ocean. OR ATOC 752D1 Atmospheric, Oceanic and Climate Dynamics, and ATOC 752D2 Atmospheric, Oceanic and Climate Dynamics..

1 credit from:

Expand allContract all

Course	Title	Credits
ATOC 751D1	Seminar: Atmosphere and Ocean.	0.5
ATOC 751D2	Seminar: Atmosphere and Ocean.	0.5
ATOC 752D1	Atmospheric, Oceanic and Climate Dynamics.	0.5
ATOC 752D2	Atmospheric, Oceanic and Climate Dynamics.	0.5

6 credits from the Department of Atmospheric and Oceanic Sciences, at the 500 level or higher, as approved by the department Graduate Program Director.

3-6 credits from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Biology (Thesis) (M.Sc.) (45 credits)

Offered by: Biology (Faculty of Science)

Degree: Master of Science
Program credit weight: 45

Program Description

The Master of Science in Biology is a research-focused program that encompasses a diverse range of topics in biology, from molecules and cells to organisms and ecosystems, including development, behaviour and evolution. Research themes include:

1. molecular, cellular and developmental biology,
2. conservation, ecology and evolution, and
3. neurobiology and behaviour.

This program allows students considerable flexibility in their choice of research and coursework and encourages cross-disciplinary thinking.

Required Courses (39 credits)

Expand allContract all

Course	Title	Credits
BIOL 697	Master's Thesis Research 1.	13
BIOL 698	Master's Thesis Research 2.	13
BIOL 699	Master's Thesis Research 3.	13

Complementary Courses (6 credits)

3 credits from the following [choose BIOL 601 Introduction to Graduate Studies in Biology, and either BIOL 602 Molecular Biology Research and Professional Skills, or BIOL 603 Organismal Biology Research and Professional Skills.]:

Expand allContract all

Course	Title	Credits
BIOL 601	Introduction to Graduate Studies in Biology.	1.5
BIOL 602	Molecular Biology Research and Professional Skills.	1.5
BIOL 603	Organismal Biology Research and Professional Skills.	1.5

*Or 3 credits at the 500 level or higher with the approval of the Graduate Program Director.

3 credits at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee.

Biology (Thesis): Environment (M.Sc.) (45 credits)

Offered by: Biology (Faculty of Science)
Degree: Master of Science
Program credit weight: 45

Program Description

This program is currently not offered.

The M.Sc. in Biology; Environment option is a research program offered in collaboration with the Bieler School of Environment. As

a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
BIOL 690	Master's Thesis Research 4.	10
BIOL 697	Master's Thesis Research 1.	13
BIOL 698	Master's Thesis Research 2.	13

Required Courses (3 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3

Complementary Courses (6 credits)

3-6 credits, one of the following courses:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Biology (Thesis): Neotropical Environment (M.Sc.) (45 credits)

Offered by: Biology (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The McGill-STRI Neotropical Environment Option (NEO) is a research-based option for Masters students in the departments of Anthropology, Biology, Bioresource Engineering, Geography, Natural Resource Sciences, Plant Science, and Political Science at McGill University. NEO is aimed at students who wish to focus their graduate research on environmental issues relevant to the Neotropics and Latin American countries. NEO favors interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Students will complete their research in Latin America and NEO's

core and complementary courses will be taught in Panama. NEO's educational approach seeks to facilitate a broader understanding of tropical environmental issues and the development of skills relevant to working in the tropics.

Whether applying to a Master or a PhD, students are expected to meet all the degree requirements of the department in which they are registered. In addition, NEO students will have to meet the specific requirements of the option.

Thesis Courses (36 credits)

Expand allContract all

Course	Title	Credits
BIOL 690	Master's Thesis Research 4.	10
BIOL 697	Master's Thesis Research 1.	13
BIOL 698	Master's Thesis Research 2.	13

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Biology (Ph.D.)

Offered by: Biology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Biology is a research-focused program that encompasses a diverse range of topics in biology, from molecules and cells to organisms and ecosystems, including development, behaviour and evolution. Research themes include:

1. molecular, cellular and developmental biology,
2. conservation, ecology and evolution, and
3. neurobiology and behaviour.

This program allows students considerable flexibility in their choice of research and coursework and encourages cross-disciplinary thinking.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
BIOL 700	Doctoral Qualifying Examination.	0
BIOL 702	Ph.D. Seminar.	6

Complementary Courses (9 credits)

3 credits from the following [choose BIOL 601 Introduction to Graduate Studies in Biology, and either BIOL 602 Molecular Biology Research and Professional Skills, or BIOL 603 Organismal Biology Research and Professional Skills.]:

Expand allContract all

Course	Title	Credits
BIOL 601	Introduction to Graduate Studies in Biology.	1.5
BIOL 602	Molecular Biology Research and Professional Skills.	1.5
BIOL 603	Organismal Biology Research and Professional Skills.	1.5

*Or 3 credits at the 500 level or higher with the approval of the Graduate Program Director.

6 credits at the 500, 600, or 700 level in Biology or other departments, and approved by the Supervisory Committee

Biology: Environment (Ph.D.)

Offered by: Biology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Ph.D. in Biology- Environment Option is a research program offered with the Bieler School of Environment and other academic units at McGill. As a complement to the unit's expertise, the program considers how various dimensions (scientific, social, legal, ethical) interact to define environment and sustainability issues.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits			
BIOL 700	Doctoral Qualifying Examination.	0	BIOL 702	Ph.D. Seminar.	6
BIOL 702	Ph.D. Seminar.	6	ENVR 610	Foundations of Environmental Policy.	3
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3			

Complementary Courses (6 credits)

3-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Biology: Neotropical Environment (Ph.D.)

Offered by: Biology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
BIOL 700	Doctoral Qualifying Examination.	0

Elective Courses (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Chemistry (Thesis) (M.Sc.) (45 credits)

Offered by: Chemistry (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Thesis Courses (24-31 credits)

At least 24 credits chosen from the following:

Expand allContract all

Course	Title	Credits
CHEM 691	M.Sc. Thesis Research 1.	3
CHEM 692	M.Sc. Thesis Research 2.	6
CHEM 693	M.Sc. Thesis Research 3.	9
CHEM 694	M.Sc. Thesis Research 4.	12
CHEM 695	M.Sc. Thesis Research 5.	15

Required Courses (5 credits)

Expand allContract all

Course	Title	Credits
CHEM 650	Seminars in Chemistry 1.	1
CHEM 651	Seminars in Chemistry 2.	1
CHEM 688	Progress Assessment 1.	3

Complementary Courses (9-16 credits)

Students will normally take 9-16 credits of CHEM (or approved) courses at the 500 or 600 level.

Chemistry (Ph.D.)

Offered by: Chemistry (Faculty of Science)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
CHEM 650	Seminars in Chemistry 1.	1
CHEM 651	Seminars in Chemistry 2.	1
CHEM 688	Progress Assessment 1.	3
CHEM 701	Comprehensive Examination.	0
CHEM 702	Progress Assessment 2 .	0

Complementary Courses

Students entering the program with an M.Sc. degree will normally take three (3) graduate-level courses. Students entering without an M.Sc. degree will normally take five (5) graduate-level courses.

Students may be required to take advanced undergraduate courses if background deficient.

Computer Science (Thesis) (M.Sc.) (45 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Computer Science; Thesis program explores advanced topics in computer science and offers training in performing cutting-edge research.

Thesis Courses (29 credits)

29 credits selected from:

Expand allContract all

Course	Title	Credits
COMP 691	Thesis Research 1.	3
COMP 696	Thesis Research 2.	3
COMP 697	Thesis Research 3.	4
COMP 698	Thesis Research 4.	10
COMP 699	Thesis Research 5.	12

Required Courses (2 credits)

Expand allContract all

Course	Title	Credits
COMP 602	Computer Science Seminar 1.	1
COMP 603	Computer Science Seminar 2.	1

Complementary Courses (14 credits)

14 credits of COMP (or approved) courses at the 500-, 600-, or 700-level, with at least 3-4 credits from two of the following three categories of courses.

Category A: Theory

Expand allContract all

Course	Title	Credits
COMP 523	Language-based Security.	3
COMP 525	Formal Verification.	3
COMP 527	Logic and Computation.	3
COMP 531	Advanced Theory of Computation.	3
COMP 532	Propositional Proof Complexity.	4
COMP 540	Matrix Computations.	4
COMP 547	Cryptography and Data Security.	4
COMP 552	Combinatorial Optimization.	4
COMP 553	Algorithmic Game Theory.	4
COMP 554	Approximation Algorithms.	4
COMP 562	Theory of Machine Learning.	4
COMP 567	Discrete Optimization 2.	3
COMP 594	Topics in CS: Theory 1	4
COMP 595	Topics in CS: Theory 2	4
COMP 610	Information Structures 1.	4
COMP 611	Mathematical Tools for Computer Science.	4
COMP 642	Numerical Estimation Methods.	4
COMP 647	Advanced Cryptography.	4
COMP 649	Quantum Cryptography.	4
COMP 690	Probabilistic Analysis of Algorithms.	4
COMP 760	Advanced Topics Theory 1.	4
COMP 761	Advanced Topics Theory 2.	4

Category B: Systems and Programming

Expand allContract all

Course	Title	Credits
COMP 512	Distributed Systems.	4
COMP 513	Advanced Computer Systems.	4
COMP 520	Compiler Design.	4
COMP 529	Software Architecture.	4
COMP 533	Model-Driven Software Development.	3
COMP 535	Computer Networks 1.	4
COMP 555	Information Privacy.	4
COMP 596	Topics in CS: Systems and Programming 1	4
COMP 597	Topics in CS: Systems and Programming 2	4
COMP 614	Distributed Data Management.	4
COMP 621	Program Analysis and Transformations.	4
COMP 762	Advanced Topics Programming 1.	4
COMP 763	Advanced Topics Programming 2.	4
COMP 764	Advanced Topics Systems 1.	4
COMP 765	Advanced Topics Systems 2.	4

Category C: Applications

Expand allContract all

Course	Title	Credits
COMP 511	Network Science.	4
COMP 514	Applied Robotics.	4
COMP 521	Modern Computer Games.	4
COMP 545	Natural Language Understanding with Deep Learning.	4
COMP 546	Computational Perception.	4
COMP 549	Brain-Inspired Artificial Intelligence.	3
COMP 550	Natural Language Processing.	3
COMP 551	Applied Machine Learning.	4
COMP 557	Fundamentals of Computer Graphics.	4
COMP 558	Fundamentals of Computer Vision.	4
COMP 559	Fundamentals of Computer Animation.	4
COMP 561	Computational Biology Methods and Research.	4
COMP 564	Advanced Computational Biology Methods and Research.	0-3
COMP 565	Machine Learning in Genomics and Healthcare.	4
COMP 579	Reinforcement Learning.	4
COMP 585	Intelligent Software Systems .	4
COMP 588	Probabilistic Graphical Models.	4
COMP 598	Topics in CS: Applications 1	4
COMP 599	Topics in CS: Applications 2	4
COMP 654	Graph Representation Learning.	4
COMP 680	Mining Biological Sequences.	4
COMP 685	Machine Learning Applied to Climate Change.	4
COMP 766	Advanced Topics Applications 1.	4
COMP 767	Advanced Topics: Applications 2.	4

Computer Science (Thesis): Bioinformatics (M.Sc.) (45 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) in Computer Science; Bioinformatics provides training in this interdisciplinary field, which lies at the intersection of biological/medical sciences and mathematics/computer science/engineering. The program includes the development of strategies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating bioinformatics data, the integration of biological databases, and the use of algorithms, artificial intelligence, and statistics. The thesis must focus on bioinformatics in relation to computer science.

Thesis Courses (24 credits)

22 credits selected from:

Course	Title	Credits
COMP 691	Thesis Research 1.	3
COMP 696	Thesis Research 2.	3
COMP 697	Thesis Research 3.	4
COMP 698	Thesis Research 4.	10
COMP 699	Thesis Research 5.	12

Required Courses (3 credits)

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5

Required Course

Course	Title	Credits
COMP 601	Thesis Literature Review.	2

Complementary Courses (18 credits)

6 credits chosen from the following courses:

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

12 credits of 4-credit courses chosen from 500-, 600-, or 700-level Computer Science courses in consultation with the candidate's supervisor.

Note: Students with an appropriate background can substitute 4 credits by COMP 697 Thesis Research 3..

Computer Science (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Computer Science (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Computer Science; Non-Thesis offers an in depth study of advanced topics in computer science, mainly through course-based work. The program includes the possibility to complete a short research project or to conduct an internship for practical experience.

Required Courses (2 credits)

Expand allContract all

Course	Title	Credits			
COMP 602	Computer Science Seminar 1.	1	MATH 559	Bayesian Theory and Methods.	4
COMP 603	Computer Science Seminar 2.	1	MATH 563	Honours Convex Optimization .	4
			MATH 578	Numerical Analysis 1.	4
			MATH 680	Computation Intensive Statistics.	4
			MECH 513	Control Systems.	3

Complementary Courses (43 credits)

Choose either: project courses and course work; or internship and course work; or all course work.

Research Project

0-15 credits from:

Expand allContract all

Course	Title	Credits
COMP 693	Research Project 1.	3
COMP 694	Research Project 2.	6
COMP 695	Research Project 3.	6

Internship

0-15 credits from:

Expand allContract all

Course	Title	Credits
COMP 689	Internship in Computer Science.	15

Course Work

28-43 credits of lecture- or seminar-based COMP courses at the 500 level or higher.

The following courses outside of the School of Computer Science may count towards the complementary courses, subject to approval by an academic adviser.

Expand allContract all

Course	Title	Credits
ECSE 507	Optimization and Optimal Control.	3
ECSE 508	Multi-Agent Systems.	3
ECSE 516	Nonlinear and Hybrid Control Systems.	3
ECSE 518	Telecommunication Network Analysis.	3
ECSE 523	Speech Communications.	3
ECSE 526	Artificial Intelligence.	3
ECSE 539	Advanced Software Language Engineering.	4
ECSE 542	Human Computer Interaction.	4
ECSE 546	Advanced Image Synthesis.	4
ECSE 551	Machine Learning for Engineers.	4
ECSE 552	Deep Learning.	4
ECSE 556	Machine Learning in Network Biology.	4
ECSE 570	Automatic Speech Recognition.	3
ECSE 626	Statistical Computer Vision.	4
MATH 523	Generalized Linear Models.	4
MATH 524	Nonparametric Statistics.	4
MATH 533	Regression and Analysis of Variance.	4

Computer Science (Ph.D.)

Offered by: Computer Science (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Computer Science offers training in advanced research in a wide range of areas relevant to computer science under close supervision of research faculty.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (4 credits)

Expand allContract all

Course	Title	Credits
COMP 604	Graduate School Fundamentals .	1
COMP 700	Ph.D. Comprehensive Examination.	0
COMP 701	Thesis Proposal and Area Examination.	3

Complementary Courses (6- 32 credits)

32 credits of graduate-level courses, excluding COMP 604, COMP 700, and COMP 701. Students with a master's degree in Computer Science or a related field are eligible for a course reduction by counting courses taken during their master's degree. Students must take a minimum of 6 credits of complementary courses at the graduate level from McGill after the course reduction. Course choice must be approved by the supervisor (or co-supervisor).

Computer Science: Bioinformatics (Ph.D.)

Offered by: Computer Science (Faculty of Science)

Degree: Doctor of Philosophy

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate

ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
COMP 616D1	Bioinformatics Seminar.	1.5
COMP 616D2	Bioinformatics Seminar.	1.5
COMP 700	Ph.D. Comprehensive Examination.	0
COMP 701	Thesis Proposal and Area Examination.	3

Complementary Courses

Two courses chosen from the following:

Expand allContract all

Course	Title	Credits
BINF 621	Bioinformatics: Molecular Biology.	3
BMDE 652	Bioinformatics: Proteomics.	3
BTEC 555	Structural Bioinformatics.	3
PHGY 603	Systems Biology and Biophysics.	3

Additional courses at the 500, 600, or 700 level may be required at the discretion of the candidate's supervisory committee. Students who have completed the M.Sc.-level option in Bioinformatics must complete 6 credits of complementary courses not taken in the master's program.

Earth and Planetary Sciences (Thesis) (M.Sc.) (45 credits)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Earth and Planetary Sciences (Thesis) provides the opportunity to conduct research, and it focuses on a broad range of geological, Earth systems, and planetary science topics. Research may encompass natural physical and chemical processes across the age of the solar system, their interaction with life forms, and the impact of human activities on our environment. A major component of the program is an M.Sc. thesis that reports the main findings of the research. Research for the thesis typically begins in the first year of residence and is completed with mentorship from our faculty, in the second year of residence.

Thesis Courses (33 credits)

Expand allContract all

Course	Title	Credits
EPSC 697	Thesis Preparation 1.	9
EPSC 698	Thesis Preparation 2.	12
EPSC 699	Thesis Preparation 3.	12

Complementary Courses (12 credits)

Four 3-credit 500-, 600-, or 700-level EPSC courses chosen with the approval of the supervisor or the research director and GPS.

Earth and Planetary Sciences (Ph.D.)

Offered by: Earth & Planetary Sciences (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

Highly qualified B.Sc. graduates may be admitted directly to the Ph.D. 1 year. Students with the M.Sc. degree are normally admitted to the Ph.D. 2 year.

* Students are required to take four graduate-level courses in the Ph.D. 1 year, and two courses plus a comprehensive oral examination in the Ph.D. 2 year.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
EPSC 700	Preliminary Doctoral Examination.	0

Complementary Courses

Two to six courses (6 to 18 credits) approved at the 500, 600, or 700 level selected in consultation with the student's supervisor and approved by the Academic Standing Committee.

Geography (Thesis) (M.Sc.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Geography; Thesis is a research-based program of 45 credits. The program provides the opportunity to conduct research, including field-based studies, focusing on the natural (i.e., biophysical) sciences and includes supervision by a faculty member. Research themes reflect the expertise and interests of current faculty members. A thesis, based on original research, is required.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits
GEOG 698	Thesis Proposal.	6
GEOG 699	Thesis Research.	24

Required Course (3 credits)

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3

Complementary Courses (12 credits)

12 credits, four 3-credit courses at the 500 level or above selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

Geography (Thesis): Environment (M.Sc.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

This program is currently not offered.

The Master of Science in Geography; Thesis – Environment is a research-based program of 45 credits. This program is offered in collaboration with the Bieler School of Environment and the Smithsonian Tropical Research Institute (STRI- Panama). The program focuses on the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The thesis must be on a topic that relates to both the environment and geography.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
GEOG 697	Thesis Research (Environment Option).	18
GEOG 698	Thesis Proposal.	6

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 650	Environmental Seminar 1.	1
ENVR 651	Environmental Seminar 2.	1
ENVR 652	Environmental Seminar 3.	1
GEOG 631	Methods of Geographical Research.	3

Complementary Courses (12 credits)

9 credits of courses at the 500 level or higher selected according to guidelines of the Department. GEOG 696 Thesis Preparation. can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from the following:

Expand allContract all

Course	Title	Credits
ENVR 620	Environment and Health of Species.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or another course at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

Geography (Thesis): Neotropical Environment (M.Sc.) (45 credits)

Offered by: Geography (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science in Geography; Thesis – Neotropical Environment is a research-based program of 45 credits. The program is offered in collaboration with the Bieler School of Environment and the Smithsonian Tropical Research Institute (STRI- Panama). The program is focused on environmental issues relevant to the Neotropics and Latin American countries including thematic areas such as geography, environment, biology, agricultural sciences, sociology, and political science. The program favours interdisciplinary approaches to research and learning through the participation of researchers from McGill University and from STRI. Some research and teaching is conducted in Latin America and Panama. The thesis must be on a topic that relates to both the neotropical environment and geography.

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis Courses (30 credits)

Expand allContract all

Course	Title	Credits			
GEOG 698	Thesis Proposal.	6	GEOG 701	Comprehensive Examination 2.	0
GEOG 699	Thesis Research.	24	GEOG 702	Comprehensive Examination 3.	0

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
GEOG 631	Methods of Geographical Research.	3

Complementary Course (3 credits)

3 credits, one Geography graduate course. GEOG 696 Thesis Preparation can count among these complementary credits for students with an appropriate background.

Elective Course (3 credits)

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approval by the student's supervisor AND the Neotropical Environment Options Director.

Geography (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The doctoral degree in Geography includes the successful completion of the comprehensive examination, a thesis based on original research and coursework chosen in collaboration with the student's supervisor and/or research committee. The main elements of the Ph.D. are the thesis and comprehensive examination, a required Methods of Geographical Research course (3 credits), and a minimum of two complementary courses (6 credits). The Ph.D. in Geography also includes several options.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0

Complementary Courses

Two courses at the 500, 600, or 700 level selected according to guidelines of the Department.

Geography: Environment (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

This program is currently not offered.

The Doctor of Philosophy in Geography; Environment is a research-based program offered in collaboration with the Bieler School of Environment (BSE). The program focuses on the role of science in informed decision-making in the environmental sector, and its influence on political, socio-economic, and ethical judgments. The thesis must be on a topic that relates to both the environment and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all

Course	Title	Credits
ENVR 615	Interdisciplinary Approach Environment and Sustainability.	3
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0

Complementary Courses (9 credits)

3-6 credits chosen from:

Expand allContract all

Course	Title	Credits
ENVR 610	Foundations of Environmental Policy.	3
ENVR 614	Mobilizing Research for Sustainability.	3

0-3 credits chosen from:

[Expand all](#)[Contract all](#)

Course	Title	Credits
ENVR 585	Readings in Environment 2.	3
ENVR 630	Civilization and Environment.	3
ENVR 680	Topics in Environment 4.	3

or 3 credits at the 500 level or higher recommended by the Advisory Committee and approved by the Environment Option Committee.

0-3 credits of Geography course at the 500 level or higher selected according to the guidelines of the Department.

Geography: Gender and Women's Studies (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Geography; Gender and Women's Studies is a research-based program that focuses on interdisciplinary gender and women's studies and issues in feminist research and methods. The thesis must be on a topic that relates to both gender and women's studies and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0
WMST 601	Feminist Theories and Methods.	3
WMST 602	Feminist Research Symposium.	3

Complementary Courses

Two substantive courses.

One of these two courses must be taken within the Department of Geography at the 500 level or above; one of the two courses must be on gender/women's issues at the 500, 600, or 700 level.

Geography: Neotropical Environment (Ph.D.)

Offered by: Geography (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Doctor of Philosophy in Geography; Neotropical Environment is a research-based program offered in collaboration with the Bieler School of Environment and the Smithsonian Tropical Research Institute (STRI-Panama). The program is focused on environmental issues relevant to the Neotropics and Latin American countries including thematic areas such as geography, environment, biology, agricultural sciences, sociology, and political science. The program favours interdisciplinary approaches to research and learning through the participation of researchers from McGill University and from STRI. Some research and teaching is conducted in Latin America and Panama. The thesis must be on a topic that relates to both the neotropical environment and geography.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

[Expand all](#)[Contract all](#)

Course	Title	Credits
BIOL 640	Tropical Biology and Conservation.	3
ENVR 610	Foundations of Environmental Policy.	3
GEOG 631	Methods of Geographical Research.	3
GEOG 700	Comprehensive Examination 1.	0
GEOG 701	Comprehensive Examination 2.	0
GEOG 702	Comprehensive Examination 3.	0

Elective Courses

3 credits, at the 500 level or higher, on environmental issues to be chosen in consultation with and approved by the student's supervisor AND the Neotropical Environment Options Director.

Mathematics and Statistics (Thesis) (M.Sc.) (45 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The Master of Science (M.Sc.) in Mathematics and Statistics; Thesis is an advanced program focusing on the areas of applied mathematics, pure mathematics, and statistics.

Thesis Courses (24 credits)

Expand allContract all

Course	Title	Credits
MATH 600	Master's Thesis Research 1.	6
MATH 601	Master's Thesis Research 2.	6
MATH 604	Master's Thesis Research 3.	6
MATH 605	Master's Thesis Research 4.	6

Complementary Courses (21 credits)

At least six approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

Mathematics and Statistics (Non-Thesis) (M.Sc.) (45 credits)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

This program is not currently offered.

The Master of Science (M.Sc.) in Mathematics and Statistics; Non-Thesis is an advanced program focusing on the areas of applied mathematics, pure mathematics, and statistics.

Research Project (16 credits)

Expand allContract all

Course	Title	Credits
MATH 640	Project 1.	8
MATH 641	Project 2.	8

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 700 level, of 3 or more credits each.

Mathematics and Statistics (Ph.D.)

Offered by: Mathematics and Statistics (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Mathematics and Statistics focuses on research in the mathematical or statistical sciences, including the completion of original research publishable in mainstream refereed journals.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits
MATH 701	Ph.D. Qualifying Examination .	0

Complementary Courses (21 credits)

21 credits of courses at the 500 level or above, including at least 6 credits at the 600 level or above. A maximum of 4 credits of courses can be Pass/Fail courses. The choice of courses to fulfill this requirement must be prior approved by the student's Advisory Committee. The Department recommends that students take complementary courses in at least three different areas of Mathematics and Statistics.

All credits of complementary courses should be taken before the end of PhD 3. In exceptional circumstances, an extension can be granted by the student's Advisory Committee.

Students who wish to take more than 8 credits of complementary courses from outside the Department should request approval from the Graduate Program Director.

Physics (Thesis) (M.Sc.) (45 credits)

Offered by: Physics (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Physics focuses on conducting innovative research in a broad range of fields at the cutting edge of physics, which include but are not limited to astronomy, high energy physics, condensed matter physics, materials science and biophysics. The thesis must focus on research in an area related to one of the Department's research groups.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits	Course	Title	Credits
PHYS 601	Introduction to Graduate Studies in Physics 1.	1.5	PHYS 601	Introduction to Graduate Studies in Physics 1.	1.5
PHYS 602	Introduction to Graduate Studies in Physics 2.	1.5	PHYS 602	Introduction to Graduate Studies in Physics 2.	1.5
PHYS 690	M.Sc. Thesis.	24			
PHYS 693	M.Sc. Research.	3			

Complementary Courses (15 credits)

12 credits at the 500, 600, or 700 level.

3 credits at the 600 or 700 level.

Students with an appropriate background may request Departmental permission to satisfy up to 6 credits through the following courses:

Expand allContract all

Course	Title	Credits
PHYS 691	Thesis Preparation.	3
PHYS 692	Thesis Project.	6

Physics (Ph.D.)

Offered by: Physics (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Physics focuses on conducting research in a broad range of fields at the cutting edge of physics, which include but are not limited to astronomy, high energy physics, condensed matter physics, materials science and biophysics. The thesis must focus on research in an area related to one of the Department's research groups, and must produce original contributions to scholarship.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

Expand allContract all

Course	Title	Credits
PHYS 700	Preliminary Ph.D. Examination.	0

Complementary Courses (6-9 credits)

0-3 credits from:

Expand allContract all

1 Students who completed PHYS 601 and PHYS 602 as part of the McGill M.Sc. in Physics program are exempt from these courses.

6 credits at the 600 level or higher, with at least 3 credits in the candidate's area of specialization. Students who completed two or more courses at the 600-level as part of the McGill M.Sc. in Physics program may contact the department to request a 3-credits exemption.

Psychology (Thesis) (M.Sc.) (45 credits)

Offered by: Psychology (Faculty of Science)

Degree: Master of Science

Program credit weight: 45

Program Description

The M.Sc. in Psychology focuses on research in the field of psychology, culminating in the submission of a thesis. The program emphasizes the skills in critical reading, data collection, and scientific communication. This program typically takes 2 years to complete.

Thesis Courses (27 credits)

Expand allContract all

Course	Title	Credits
PSYC 690	Masters Research 1.	15
PSYC 699	Masters Research 2.	12

Required Courses (18 credits)

Expand allContract all

Course	Title	Credits
PSYC 601	First Year Research Paper.	6
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Psychology (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

All candidates for the Ph.D. degree must demonstrate broad scholarship, mastery of current theoretical issues in psychology and their historical development, and a detailed knowledge of their special field. Great emphasis is placed on the development of research skills, and the dissertation forms the major part of the evaluation at the Ph.D. level.

Ph.D. students in Clinical Psychology must fulfil similar requirements to Ph.D. students in the Experimental Program and must also take a

variety of specialized courses, which include practicum and internship experiences.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Course

Expand allContract all

Course	Title	Credits
PSYC 701	Doctoral Comprehensive Examination.	0

Complementary Courses (12-24 credits)

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

Expand allContract all

Course	Title	Credits
PSYC 712	Comparative and Physiological Psychology 3.	3
PSYC 715	Comparative and Physiological Psychology 6.	3
PSYC 722	Personality and Social Psychology.	3
PSYC 723	Personality and Social Psychology.	3
PSYC 724	Personality and Social Psychology.	3
PSYC 725	Personality and Social Psychology.	3
PSYC 727	Personality and Social Psychology.	3
PSYC 728	Ethics and Professional Issues.	3
PSYC 729	Theory of Assessment.	3
PSYC 730	Clinical Neuroscience Methods.	3
PSYC 732	Clinical Psychology 1.	3
PSYC 733	Clinical Psychology 2.	3
PSYC 734	Developmental Psychology and Language.	3
PSYC 735	Developmental Psychology and Language.	3
PSYC 736	Developmental Psychology and Language.	3
PSYC 740	Perception and Cognition.	3
PSYC 741	Perception and Cognition.	3
PSYC 742	Perception and Cognition.	3
PSYC 746	Quantitative and Individual Differences.	3
PSYC 747	Quantitative and Individual Differences.	3
PSYC 748	Quantitative and Individual Differences.	3
PSYC 749	Quantitative and Individual Differences.	3
PSYC 750	Applied Bayesian Statistics.	3
PSYC 752D1	Psychotherapy and Behaviour Change.	3

PSYC 752D2	Psychotherapy and Behaviour Change.	3
PSYC 753	Health Psychology Seminar 1.	3

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

Expand allContract all

Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Psychology: Behavioural Neuroscience (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

The Ph.D. in Psychology; Behavioural Neuroscience program emphasizes modern, advanced theory and methodology aimed at the neurobiological underpinnings of behaviour in human and non-human animals. This program is intended for graduate students in any area of Psychology who wish to obtain unique, intensive training at the intersection of psychology and neuroscience, thereby enhancing their expertise; the interdisciplinary potential of their dissertation research, and enabling them to compete successfully for academic or commercial positions in either field alone, or their intersection. It requires that students complete a dissertation that addresses Behavioural Neuroscience themes as determined by the graduate program director.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses

Expand allContract all

Course	Title	Credits			
PSYC 701	Doctoral Comprehensive Examination.	0	PSYC 709	Language Acquisition Issues 1.	2
PSYC 781	Behavioural Neuroscience Special Topics.	3	SCSD 712	Language Acquisition Issues 4.	2
PSYC 782	Behavioural Neuroscience Advanced Seminar.	3			

Complementary Courses (6-18 credits)

6 credits (one course per term in Year 2 and Year 3) chosen from relevant 700-level courses in consultation with the supervisor and graduate program director.

0-12 credits from the following (students without a master's degree from McGill need to take all 12 credits):

Expand allContract all		
Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

Psychology: Language Acquisition (Ph.D.)

Offered by: Psychology (Faculty of Science)

Degree: Doctor of Philosophy

Program Description

Students must satisfy all program requirements for the Ph.D. in Psychology. The Ph.D. thesis must be on a topic relating to language acquisition.

Thesis

A thesis for the doctoral degree must constitute original scholarship and must be a distinct contribution to knowledge. It must show familiarity with previous work in the field and must demonstrate ability to plan and carry out research, organize results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrate how the research advances knowledge in the field. Finally, the thesis must be written in compliance with norms for academic and scholarly expression and for publication in the public domain.

Required Courses (6 credits)

Expand allContract all		
Course	Title	Credits
LING 710	Language Acquisition Issues 2.	2
PSYC 701	Doctoral Comprehensive Examination.	0

Complementary Courses (15-32 credits)

12 credits (one course per term in Year 2 and Year 3) chosen from the following list:

Expand allContract all

Course	Title	Credits
PSYC 712	Comparative and Physiological Psychology 3.	3
PSYC 715	Comparative and Physiological Psychology 6.	3
PSYC 722	Personality and Social Psychology.	3
PSYC 723	Personality and Social Psychology.	3
PSYC 724	Personality and Social Psychology.	3
PSYC 725	Personality and Social Psychology.	3
PSYC 727	Personality and Social Psychology.	3
PSYC 728	Ethics and Professional Issues.	3
PSYC 729	Theory of Assessment.	3
PSYC 730	Clinical Neuroscience Methods.	3
PSYC 732D1	Clinical Psychology 1.	1.5
PSYC 732D2	Clinical Psychology 1.	1.5
PSYC 733D1	Clinical Psychology 2.	1.5
PSYC 733D2	Clinical Psychology 2.	1.5
PSYC 734	Developmental Psychology and Language.	3
PSYC 735	Developmental Psychology and Language.	3
PSYC 736	Developmental Psychology and Language.	3
PSYC 740	Perception and Cognition.	3
PSYC 741	Perception and Cognition.	3
PSYC 742	Perception and Cognition.	3
PSYC 746	Quantitative and Individual Differences.	3
PSYC 747	Quantitative and Individual Differences.	3
PSYC 748	Quantitative and Individual Differences.	3
PSYC 749	Quantitative and Individual Differences.	3
PSYC 750	Applied Bayesian Statistics.	3
PSYC 752D1	Psychotherapy and Behaviour Change.	3
PSYC 752D2	Psychotherapy and Behaviour Change.	3
PSYC 753	Health Psychology Seminar 1.	3

At least 3 credits selected from the following list:

Expand allContract all

Course	Title	Credits
EDSL 620	Social Justice Issues in Second Language Education.	3
EDSL 623	Second Language Learning.	3
EDSL 624	Educational Sociolinguistics.	3
EDSL 627	Instructed Second Language Acquisition Research.	3

EDSL 632	Second Language Literacy Development.	3
LING 651	Topics in Acquisition of Phonology.	3
PSYC 545	Topics in Language Acquisition.	3
PSYC 735	Developmental Psychology and Language.	3
SCSD 619	Phonological Development.	3
SCSD 632	Phonological Disorders: Children.	3
SCSD 637	Developmental Language Disorders 1.	3
SCSD 643	Developmental Language Disorders 2.	3
SCSD 652	Advanced Research Seminar 1.	3
SCSD 653	Advanced Research Seminar 2.	3
SCSD 654	Advanced Research Seminar 3.	3

0-2 from the following:

Expand allContract all

Course	Title	Credits
EDPE 713	Language Acquisition Issues 5.	2
EDSL 711	Language Acquisition Issues 3.	2

0-3 credits of statistics from the following list:

Expand allContract all

Course	Title	Credits
EDPE 676	Intermediate Statistics.	3
EDPE 682	Univariate/Multivariate Analysis.	3
LING 620	Experimental Linguistics: Methods.	3
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3

Students who have taken an equivalent course in statistics will be deemed to have satisfied this requirement for the Language Acquisition Option.

These 3 credits are only required for students who have not previously taken an equivalent course in statistics.

0-12 credits from the following (students without a McGill master's degree need to take all 12 credits):

Expand allContract all

Course	Title	Credits
PSYC 650	Advanced Statistics 1.	3
PSYC 651	Advanced Statistics 2.	3
PSYC 660D1	Psychology Theory.	3
PSYC 660D2	Psychology Theory.	3

Note: The Department of Psychology does not ordinarily require an examination in a foreign language however, all students planning on practicing clinical psychology in the province of Quebec will be examined based on their proficiency in French before being admitted to the professional association.

English for Professional Communication (Cert. Proficiency) (30 credits)

Offered by: Global & Strategic Comm.

Degree credit weight: 30

Program Description

This award-winning certificate program focuses on the English oral and written communication skills necessary to function effectively in a professional environment. The program is the equivalent to one year of full-time university study.

The program begins at the low-intermediate level. Students with a basic or an elementary knowledge of English will need to complete prerequisite courses before entering the program. The prerequisite courses do not count towards the program's 30 credits.

Students who begin the program at the Intermediate-2 or Intermediate-3 levels may take courses from the list of approved substitutions to complete 30 credits.

Students wishing to take extra courses may take courses from the list of complementary elective courses.

The program is offered three times a year: in Fall, Winter, and Summer for a period of 13 weeks. Courses are offered during the week and on Saturdays.

The program leads, under certain conditions, to the Certificate in Proficiency in English for Professional Communication.

Preparatory Courses (0-15credits)

Expand allContract all

Course	Title	Credits
CEEN 102	Basic English.	3
CEEN 111	Elementary English 1: Reading and Writing.	3
CEEN 112	Elementary English 1: Listening and Speaking.	3
CEEN 121	Elementary English 2: Reading and Writing.	3
CEEN 122	Elementary English 2: Listening and Speaking.	3

Required Courses (30 credits)²

Expand allContract all

Course	Title	Credits
CEEN 211	Intermediate English 1: Reading and Writing.	3
CEEN 212	Intermediate English 1: Listening and Speaking.	3
CEEN 221	Intermediate English 2: Reading and Writing.	3
CEEN 222	Intermediate English 2: Listening and Speaking.	3
CEEN 331	Intermediate English 3: Reading and Writing.	3
CEEN 332	Intermediate English 3: Listening and Speaking.	3
CEEN 411	Advanced English 1: Reading and Writing.	3
CEEN 412	Advanced English 1: Listening and Speaking.	3

CEEN 421	Advanced English 2: Reading and Writing.	3
CEEN 422	Advanced English 2: Listening and Speaking.	3

Complementary Courses (0-30 credits)

Approved Substitutions (0-12 credits)³

Expand all Contract all

Course	Title	Credits
CEEN 401	English Vocabulary in Context.	3
CEEN 402	English Communication and Cultural Patterns.	3
CEEN 403	Strategic Communication in English.	3
CEEN 404	English Creative Non-fiction Writing.	3

0-18 credits from the following:⁴

Expand all Contract all

Course	Title	Credits
CEEN 201	Vocabulary and Reading Strategies.	3
CEEN 202	Introduction: English Pronunciation System.	3
CEEN 266	Introduction to Creative Writing.	3
CEEN 267	English Study Topics: The Story of Canada.	3
CEEN 301	English Grammar in Context.	3
CEEN 302	English Pronunciation: Stress and Intonation.	3

Notes:

¹ Students who place lower than Intermediate-Low on the required placement test have the option to take 3 to 15 credits of the preparatory module (depending on their placement test score) to reach the entry level of the program.

² Students who begin their studies with courses CEEN 411 Advanced English 1: Reading and Writing ./CEEN 412 Advanced English 1: Listening and Speaking. are not eligible for admission to the Certificate of Proficiency – English for Professional Communication. However, these students may register as "Special Students" and may be eligible to receive the McGill Attestation of Proficiency in English if they successfully complete all four (4) courses of the Advanced module (CEEN 411 Advanced English 1: Reading and Writing ., CEEN 412 Advanced English 1: Listening and Speaking., CEEN 421 Advanced English 2: Reading and Writing ., and CEEN 422 Advanced English 2:Listening and Speaking.) with a minimum grade of B- (65%).

³ Students who begin their studies with courses CEEN 221 Intermediate English 2: Reading and Writing./CEEN 222 Intermediate English 2: Listening and Speaking. and who would like to be admitted to the Certificate of Proficiency – English for Professional Communication must take two approved substitutions (CEEN 401 English Vocabulary in Context. or CEEN 402 English Communication and Cultural Patterns. or CEEN 403 Strategic Communication in English. or CEEN 404 English Creative Non-fiction Writing.), or equivalent courses as approved by the Director, to satisfy the requirements of the program. These courses may be taken as part of the advanced module of the program. For more information, please contact the Global and Strategic Communication domain.

Students who begin their studies with courses CEEN 331 Intermediate English 3: Reading and Writing./CEEN 332

Intermediate English 3: Listening and Speaking. and who would like to be admitted to the Certificate of Proficiency – English for Professional Communication must take four approved substitutions (CEEN 401 English Vocabulary in Context. and CEEN 402 English Communication and Cultural Patterns. and CEEN 403 Strategic Communication in English. and CEEN 404 English Creative Non-fiction Writing.), or equivalent courses as approved by the Director, to satisfy the requirements of the program. These courses may be taken as part of the advanced module of the program. For more information, please contact the Global and Strategic Communication domain.

⁴ Students who would like to take extra courses to increase their target language contact hours may take courses from the list of additional electives.

French for Professional Communication (Cert. Proficiency) (30 credits)

Offered by: Global & Strategic Comm.

Degree credit weight: 30

Program Description

This award-winning part-time certificate program has been designed to enable students to master, in both oral and written French, the linguistic and communicative skills necessary to function effectively in a professional francophone environment.

The program is the equivalent of one year of full-time university studies, requires the completion of ten 3-credit courses, and starts at the low-intermediate level (courses CEFN 211 Functional French Grammar/Writing 1. and CEFN 212 French Communication Practice 1.). Students with a basic or an elementary knowledge of French will need to complete credit prerequisite courses before entering the program. Those credit courses won't be accepted as part of the Certificate. The overall program structure is divided into two modules:

1. The Preparatory Module comprises four prerequisite courses (one at the basic level and three at the elementary level) of 39 hours each.
2. The Intermediate and Advanced Credit Module consists of ten 3-credit courses of 39 hours each. It includes courses at the 200, 300, and 400 levels.

The program is offered three times a year: in Fall and Winter for a period of 13 weeks (Preparatory and Intermediate and Advanced Credit Modules). In Spring, both Modules last nine weeks. Courses are offered during the evening and on Saturday mornings.

Every student registered in a credit or non-credit course has exclusive access to online pedagogical material and other resources through the myCourses platform. This allows students to participate in virtual projects and/or reinforce their language training on an individual basis and at their own pace. The communication tools integrated in myCourses further consolidate the individual pedagogical support offered by the lecturer.

The program leads, under certain conditions, to the Certificate in Proficiency - French for Professional Communication (see "Academic Regulations"). The level of this certificate corresponds to the Advanced

Level recognized by the American Council on the Teaching of Foreign Languages (ACTFL). For information on term dates, please refer to the Department's website.

Prerequisite courses

Expand allContract all

Course	Title	Credits
CEFN 102	Basic French.	3
CEFN 104	Elementary French .	3
CEFN 106	Fundamentals of French Grammar and Writing.	3
CEFN 107	Fundamentals of French Oral Communication.	3

Required courses - Intermediate and Advanced (30 credits)

Expand allContract all

Course	Title	Credits
CEFN 211	Functional French Grammar/Writing 1.	3
CEFN 212	French Communication Practice 1.	3
CEFN 221	Functional French Grammar/Writing 2.	3
CEFN 222	French Communication Practice 2.	3
CEFN 331	Functional French Grammar/Writing 3.	3
CEFN 332	French Communication Practice 3.	3
CEFN 411	French Grammar/Writing Techniques.	3
CEFN 412	French Oral Communication Techniques.	3
CEFN 421	French Written Communication Contexts.	3
CEFN 422	French Oral Communication Contexts.	3

Complementary courses

Expand allContract all

Course	Title	Credits
CEFN 401	French Vocabulary in Context.	3
CEFN 402	Persuasive French in Communication.	3

Notes:

*1 Students who begin their studies with courses CEFN 221 Functional French Grammar/Writing 2./CEFN 222 French Communication Practice 2. and who would like to be admitted to the Certificate of Proficiency - French for Professional Communication must take two complementary courses (CEFN 401 French Vocabulary in Context. and CEFN 402 Persuasive French in Communication.), or equivalent courses as approved by the Language and Intercultural Communication unit, to satisfy the requirements of the program. These courses may be taken as part of the advanced module of the program. For more information, please contact the academic unit.

*2 Students who begin their studies with courses CEFN 331 Functional French Grammar/Writing 3./CEFN 332 French Communication Practice 3. and who would like to be admitted to the Certificate of Proficiency - French for Professional Communication must take up to two Comprehensive Challenge Exams which correspond to the previous level (CEFN 221 Functional French Grammar/Writing 2./CEFN 222 French Communication Practice 2.), and two complementary courses (CEFN 401 French Vocabulary in

Context. and CEFN 402 Persuasive French in Communication.), or equivalent courses as approved by the Language and Intercultural Communication unit, in order to satisfy the requirements of the program. These courses may be taken as part of the advanced module of the program. For more information, please contact the academic unit.

*3 Students who begin their studies with courses CEFN 411 French Grammar/Writing Techniques./CEFN 412 French Oral Communication Techniques. are not eligible for admission to the Certificate of Proficiency - French for Professional Communication. However, these students may register as Special Students and may be eligible to receive the McGill Attestation of Proficiency in French if they successfully complete all four (4) courses of the Advanced Module (CEFN 411 French Grammar/Writing Techniques. CEFN 412 French Oral Communication Techniques., CEFN 421 French Written Communication Contexts., and CEFN 422 French Oral Communication Contexts.) with a minimum grade of B- (65%).

Bilingual Professional Communication (Cert. Proficiency) (30 credits)

Offered by: Global & Strategic Comm.

Degree credit weight: 30

Program Description

The Certificate of Proficiency in Bilingual Professional Communication addresses the need for bilingual proficiency (English and French) in a professional context. It is intended for adult learners who wish to acquire proof of proficiency in these two languages simultaneously, and attain a high level of bilingualism for the workplace. The program may be completed on a part-time basis.

Program Prerequisites

- If your English Entrance Placement level is not at Advanced 1, you may need some or all of these courses (above the 30 credits for the program):

Expand allContract all

Course	Title	Credits
CEEN 211	Intermediate English 1: Reading and Writing.	3
CEEN 212	Intermediate English 1: Listening and Speaking.	3
CEEN 221	Intermediate English 2: Reading and Writing.	3
CEEN 222	Intermediate English 2: Listening and Speaking.	3
CEEN 331	Intermediate English 3: Reading and Writing.	3
CEEN 332	Intermediate English 3: Listening and Speaking.	3

- If your French Entrance Placement level is not at Advanced 1, you may need some or all of these courses (above the 30 credits for the program):

Expand allContract all

Course	Title	Credits
CEFN 211	Functional French Grammar/Writing 1.	3
CEFN 212	French Communication Practice 1.	3
CEFN 221	Functional French Grammar/Writing 2.	3

CEFN 222	French Communication Practice 2.	3	CACF 341	Taxation: Concepts and Regulations.	3
CEFN 331	Functional French Grammar/Writing 3.	3	CACF 345	Intermediate Managerial Accounting.	3
CEFN 332	French Communication Practice 3.	3	CACF 450	Financial and Working Capital Management.	3
			CACF 460	Applied Personal and Corporate Taxation.	3

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
CEEN 411	Advanced English 1: Reading and Writing.	3
CEEN 412	Advanced English 1: Listening and Speaking.	3
CEEN 421	Advanced English 2: Reading and Writing.	3
CEEN 422	Advanced English 2: Listening and Speaking.	3
CEFN 411	French Grammar/Writing Techniques.	3
CEFN 412	French Oral Communication Techniques.	3
CEFN 421	French Written Communication Contexts.	3
CEFN 422	French Oral Communication Contexts.	3

Complementary Courses (6 credits)

- To be chosen in consultation with, and approved by, the Program Coordinator.

Expand allContract all

Course	Title	Credits
CEEN 401	English Vocabulary in Context.	3
CEEN 402	English Communication and Cultural Patterns.	3
CEFN 401	French Vocabulary in Context.	3
CEFN 402	Persuasive French in Communication.	3

Accounting and Finance (Cert.) (30 credits)

Offered by: Administration & Governance

Program credit weight: 30

Program Description

The Certificate in Accounting and Finance program is an undergraduate-level certificate program which is intended to provide students with professional competencies and skills in applied accounting and finance that will enhance their career prospects in related fields.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
CACF 210	Introductory Financial Accounting.	3
CACF 215	Introductory Managerial Accounting.	3
CACF 305	Information System Tools in Accounting.	3
CACF 310	Intermediate Financial Reporting 1.	3
CACF 325	Intermediate Financial Reporting 2.	3
CACF 340	Corporate Finance: Value Creation and Decision-Making.	3

Applied Cybersecurity (Cert.) (30 credits)

Offered by: Technology & Innovation

Program credit weight: 30

Program Description

This online program focuses on the foundational skills and competencies necessary for cybersecurity personnel. The program includes both theoretical and practical experiences in IT networking and secure network infrastructures designed to anticipate and project against cyber threats, fraud, data breaches and other vulnerabilities.

Please click here for information on additional requirements for students pursuing this online program:
https://www.mcgill.ca/study/2024-2025/university_regulations_and_resources/undergraduate/gi_online_distance_programs

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
CCCS 300	Programming Techniques 1.	3
CCCS 321	Operating Systems Administration.	3
CCCS 431	Networking Fundamentals.	3
CCCS 450	Access Control and Defence Methods.	3
CCCS 451	Communication and Network Security.	3
CCCS 452	Security Program Architecture and Engineering.	3
CCCS 453	Security Risk Management and Governance.	3
CCCS 454	Security Incident Response and Recovery.	3
CCCS 455	Intrusion Testing and Security Assessment.	3
CMIS 422	Information System Security.	3

Applied Marketing (Cert.) (30 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 30

Program Description

The Certificate in Applied Marketing is intended for students who wish to acquire basic knowledge of the marketing field that will allow them to aspire to entry-level positions in business, industry, and not-for-profit organizations. It will introduce students to theories and concepts of marketing, and provide an opportunity to apply these in practical situations.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
CGMG 318	Selling Models and Business Negotiation.	3
CMRK 200	Fundamentals of Marketing.	3
CMRK 225	Marketing Statistics and Research.	3
CMRK 235	Digital Media Marketing.	3
CMRK 320	Principles of Consumer Behaviour.	3
CMRK 321	Integrated Marketing Communications.	3
CMRK 322	Basics of Service Marketing.	3
CMRK 325	Global Marketing.	3
CMRK 430	Marketing Applications.	3
CPRL 221	Professional Communication and Networking.	3

Computers and Information Technology (Cert.) (30 credits)

Program credit weight: 30

Program Description

The Certificate in Computers and Information Technology focuses on the development of higher-level computer qualifications. It provides a solid foundation in the concepts and techniques required for the effective planning, design, and development of software applications and systems, Internet technologies, applied computer knowledge, and networking. The program is designed to develop the skills necessary to assume positions in the fields of information technology, technical support, systems administrator, computer support consulting, and help-desk analysis.

Required Courses (30 credits)

Course	Title	Credits
CCCS 280	Introduction to Computer Information Systems.	3
CCCS 300	Programming Techniques 1.	3
CCCS 310	Web Development.	3
CCCS 315	Data Structures and Algorithms.	3
CCCS 321	Operating Systems Administration.	3
CCCS 325	Mobile Application Development.	3
CCCS 330	Database Design and Business Applications Development.	3
CCCS 425	Web Services.	3
CCCS 431	Networking Fundamentals.	3
CMIS 422	Information System Security.	3

Health and Social Services Management (Cert.) (30 credits)

Offered by: Administration & Governance

Program credit weight: 30

Program Description

This is a restricted program.

The Certificate in Health and Social Services Management will provide learners with an integrated base of management knowledge in the field of health and social services. It will focus on the development of skills in the day-to-day management of the provision of services in terms of both efficiency and human criteria.

Required Courses (30 Credits)

Course	Title	Credits
CGMG 210	Fundamentals of Project Management.	3
CHLC 351	Foundations of Health and Social Services Systems.	3
CHLC 410	Fundamentals of Health and Social Services Info Systems.	3
CORG 225	Foundation of Organizational Behaviour and Administration.	3
CORG 415	Leading Teams in Organizations.	3
CORG 416	Leading Change in Organizations.	3
CPAG 220	Fundamentals of Public Finance, Budgeting and Reporting.	3
CPAG 225	Foundations of Public Regulations and Ethics in Public Sector.	3
CPAG 300	Lean Operational Practices in Public Services.	3
CPRL 221	Professional Communication and Networking.	3

Human Resources Management (Cert.) (30 credits)

Offered by: Administration & Governance

Program credit weight: 30

Program Description

The Certificate in Human Resources Management provides an introduction to the disciplines and basic practices of human resources management. In addition, the Certificate program presents an overview of the specialized functions and some of the current and future issues in the area of personnel. It prepares students for the job market and to write the CHRP exam.

Required Courses (27 credits)

Course	Title	Credits
CORG 225	Foundation of Organizational Behaviour and Administration.	3
CORG 295	Employee Labour Relations and Law.	3
CORG 416	Leading Change in Organizations.	3
CORG 420	Human Resource Management: Theory and Practice.	3
CORG 440	Organizational Learning and Development .	3

CORG 445	Workforce Planning and Talent Acquisition.	3
CORG 450	Workplace Health and Safety.	3
CORG 470	Theories and Practices of Compensation.	3
CPAG 410	Strategic Planning and Implementation.	3

Complementary Course (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
CGMG 282	Introduction to Business.	3
CGMG 445	Ethical Issues in Business Practices.	3
CORG 415	Leading Teams in Organizations.	3
CPAG 400	Diversity, Equity, and Inclusion Management.	3

Indigenous Business Management (Cert.) (30 credits)

Offered by: Management and Entrepreneurship

Program credit weight: 30

Program Description

This tailored program is intended for Indigenous students as a result of the need expressed by the Indigenous community leaders. The twenty first century demands multidisciplinary individuals, teams, communities and organizations. This program introduces the knowledge and competencies essential to starting, promoting, and managing a socially relevant business or organization. It focuses on numerical and financial literacy, as well as fundamental communication and management skills. It will help develop the skills needed to create a business or effectively work in an established organization, create a business plan, develop projects, communicate with confidence, effectively manage internal and external stakeholders, understand the fundamentals of how organizations operate within a social, political, and legal framework, and negotiate and manage conflict.

Corequisite (0 Credits)

This course must be taken at the beginning of the program.

Expand allContract all

Course	Title	Credits
CMSC 000	Foundations of Mathematics	3

¹ OR the Exemption by Examination Test.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
CACC 220	Accounting Concepts for Managers.	3
CCLW 300	Public Administration and Law for Indigenous Peoples.	3

CENT 307	Creating a Business Plan.	3
CGMG 210	Fundamentals of Project Management.	3
CGMG 282	Introduction to Business.	3
CGMG 305	Managing in Public and Non-Profit Organizations.	3
CGMG 318	Selling Models and Business Negotiation.	3
CMRK 235	Digital Media Marketing.	3
CORG 225	Foundation of Organizational Behaviour and Administration.	3
CPRL 221	Professional Communication and Networking.	3

Management (Cert.) (30 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 30

Program Description

This Certificate program provides an introduction and survey of the underlying disciplines of functional areas in the management field. Emphasis is placed on the development of core competencies in accounting, economics, marketing, and finance, as well as the written and oral communication, problem-solving, and teamwork skills required in all sectors of the management job market; from small businesses, private companies, large corporations, and financial institutions, to government agencies and other public institutions.

Note: Corequisite courses are not included in the total credit requirement for the program.

Corequisites (0-3 credits)

Expand allContract all

Course	Title	Credits
CMSC 101	Mathematical Tools for Management Professionals.	3

¹ or the Exemption by Examination test

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
CACF 210	Introductory Financial Accounting.	3
CACF 340	Corporate Finance: Value Creation and Decision-Making.	3
CGMG 282	Introduction to Business.	3
CMRK 200	Fundamentals of Marketing.	3
CMSC 310	Managerial Economics and Analysis.	3
CMSC 320	Business Statistics.	3
CORG 225	Foundation of Organizational Behaviour and Administration.	3
WCOM 202	Communication in Management 1.	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
CCCS 280	Introduction to Computer Information Systems.	3
CCLW 205	Introduction to Business Law.	3
CGMG 210	Fundamentals of Project Management.	3
CGMG 319	International Business Practices.	3
CGMG 445	Ethical Issues in Business Practices.	3
CORG 420	Human Resource Management: Theory and Practice.	3
CPAG 410	Strategic Planning and Implementation.	3
ECON 295	Macroeconomic Policy.	3

Public Administration and Governance (Cert.) (30 credits)

Program credit weight: 30

The Certificate in Public Administration and Governance focuses on public service management, organization, and prioritization of day-to-day functions for people in management and for other stakeholders who work cooperatively and productively with others, including the needs of clients who use services in the public sector. A strong emphasis is placed on integrating the important current issues and policies that affect the day-to-day operating, decisions, systems and finances in a public organization.

Required Courses

Expand allContract all

Course	Title	Credits
CGMG 210	Fundamentals of Project Management.	3
CGMG 305	Managing in Public and Non-Profit Organizations.	3
CORG 225	Foundation of Organizational Behaviour and Administration.	3
CORG 420	Human Resource Management: Theory and Practice.	3
CPAG 220	Fundamentals of Public Finance, Budgeting and Reporting.	3
CPAG 225	Foundations of Public Regulations and Ethics in Public Sector.	3
CPAG 300	Lean Operational Practices in Public Services.	3
CPAG 305	Current Issues in Public Sector Administration.	3
CPAG 400	Diversity, Equity, and Inclusion Management.	3
CPAG 410	Strategic Planning and Implementation.	3

Public Relations and Communication Management (Cert.) (30 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 30

Program Description

The field of Public Relations and Communications Management has been changing dramatically in recent years. Digital (including social media) is changing the way public and organizations communicate. Increased consciousness by companies of their social responsibility, and a need for greater accountability to stakeholders, have led to an awareness in both the corporate and the not-for-profit sector that organizations need to rely on the advice and services of well trained professional communicators. The program content is continually updated with best practices in industry. Students have opportunities to discuss real and evolving public relations cases directly with industry professionals.

Required Courses (30 credits)

Expand allContract all

Course	Title	Credits
CPRL 214	Applied Public Relations Methods 1.	3
CPRL 220	Fundamentals of Fund-Raising.	3
CPRL 223	Basics of Public Relations.	3
CPRL 224	Applied Public Relations Methods 2.	3
CPRL 225	Social and Traditional Media Relations.	3
CPRL 226	Corporate Communications.	3
CPRL 227	Internal Communication.	3
CPRL 228	Event Management.	3
CPRL 321	PR Issues Management.	3
CPRL 322	Cases in Public Relations.	3

STEM Foundations (Science, Technology, Engineering & Math) (Cert.) (30 credits)

Offered by: Career & Professional Develop

Program credit weight: 30

Program Description

The Certificate in STEM Foundations (Science, Technology, Engineering and Mathematics) is a 30-credit undergraduate program that focuses on specific STEM topics (i.e., mathematics, chemistry, biology and physics) at the Grade 12 level.

NOTE: There is no guarantee admission to a McGill degree program upon completion of the Certificate in STEM Foundations (Science, Technology, Engineering and Mathematics).

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
CMSC 000	Foundations of Mathematics	3
CMSC 003	Foundations of Logarithms, Trigonometry & Intro to Calculus.	3
CSCI 010	Foundations in General Biology 1.	3
CSCI 020	Foundations in General Chemistry 1.	3
CSCI 021	Foundations in General Chemistry 2 .	3
CSCI 030	Fundamentals of Physics - Mechanics.	3
CSCI 031	Fundamentals of Physics - Waves and Optics .	3
CSCI 041	Essential Communication Skills for STEM.	3

Corequisite (3 Credits)

Note: Corequisite courses are not included in the total credit requirement for the program.

Expand all Contract all

Course	Title	Credits
CMSC 000	Foundations of Mathematics ¹	3

¹ or the Exemption by Examination Test

Required Courses (30 Credits)

Expand all Contract all

Course	Title	Credits
CCLW 205	Introduction to Business Law.	3
CTPT 200	Introduction to Supply Chain Management.	3
CTPT 201	Sourcing.	3
CTPT 202	Production and Inventory Planning and Control 1.	3
CTPT 206	Transportation Management and Economics.	3
CTPT 208	Fundamentals of Logistics.	3
CTPT 310	Production and Inventory Planning and Control 2.	3
CTPT 311	Supply Chain Risk Management.	3
CTPT 410	International Trade and Logistics.	3
CTPT 430	Fundamentals of Integrated Business Systems.	3

Vocational Education (B.Ed.) (90 credits)

Offered by: Integrated Studies in Education

Program credit weight: 90

Program Requirements

Admission to this program has been suspended.

Accounting (Gr. Cert.) (30 credits)

Offered by: Administration & Governance

Program credit weight: 30

Program Description

The Graduate Certificate in Accounting focuses on the core competencies in accounting, including financial accounting, managerial accounting, taxation, auditing, and accounting information systems. This program is a preparation program for the CPA Professional Education Program (CPA PEP), to become a Chartered Professional Accountant (CPA).

Prerequisite Courses(3 credits)

Expand all Contract all

Course	Title	Credits
CACC 621	Concepts of Financial Accounting.	3

Complementary Courses (6 credits)

- 3 credits from:

Expand all Contract all

Course	Title	Credits
CMSC 004	Foundations: Statistics, Probability&Intro to Linear Algebra.	3
CSCI 011	Foundations of General Biology 2 . ²	3

¹

² For Engineering programs.

For Health and Science programs.

- 3 credits from the following (up to 3 credits may be chosen from 100-level courses approved by the program adviser):

Expand all Contract all

Course	Title	Credits
CSCI 022	Fundamentals of Organic Chemistry.	3
CSCI 040	Basic Concepts in Mathematics & Science.	3
WCOM 150	Critical Analysis and Composition.	3
WCOM 295	ESL: Academic Skills.	3

Supply Chain Management and Logistics (Cert.) (30 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 30

Program Description

The Supply Chain Management and Logistics Certificate program is comprised of 2 core courses and 2 sets of courses. The Production and Inventory Control set will provide students with a strong background in manufacturing supply chain environments and will lead them toward a CPIM designation offered by APICS, provided that the students pass the APICS examinations. The Logistics set will provide students with a strong background in companies' supply chain, distribution and logistics functions and will lead them toward a CITT designation provided that CITT's other requirements are satisfied.

Corequisite Courses (0-6 credits)

Expand allContract all

Course	Title	Credits
CPL2 652	Strategic Management.	3
CCFA 605	Quantitative Methods for Accounting and Finance	3

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
CCAU 611	Auditing 1.	3
CCFA 620	Contemporary Finance 1.	3
CCFC 611	Financial Accounting 1.	3
CCFC 612	Financial Accounting 2.	3
CCFC 613	Financial Accounting 3.	3
CCMA 611	Managerial Accounting 1.	3
CCMA 622	Managerial Accounting 2.	3
CCTX 611	Taxation 1.	3
CCTX 632	Taxation 2.	3

Complementary Courses (3 credits)

3 credits from the following:

Expand allContract all

Course	Title	Credits
CCAU 612	Auditing 2	3
CCLW 611	Business Law Concepts.	3
CEC2 632	Business Economics.	3
CMIS 641	Information Systems for Managers.	3

Advanced Business Management (Gr. Cert.) (15 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Advanced Business Management delves into the competencies and tools needed to identify, evaluate, and provide solutions for challenges throughout key areas of business management. Using a combination of academic and applied learning, the program examines subjects such as business intelligence and analytics, contemporary finance, and strategic management. Complete both the Graduate Certificate in Business Management and the Graduate Certificate in Advanced Business Management fulfills the Canadian Institute of Management's academic requirements for the Chartered Manager designation.

Co-requisite (0-3 credits)

Expand allContract all

Course	Title	Credits
CMS2 500	Mathematics for Management.	3

(or the Exemption by Examination Test)

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CCFA 620	Contemporary Finance 1.	3
CMS2 627	Business Intelligence and Analytics.	3
CPL2 652	Strategic Management.	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
CCLW 611	Business Law Concepts.	3
CGM2 620	Agile Project Management: Theory and Practice.	3
CMIS 641	Information Systems for Managers.	3
CMS2 621	Applied Management Statistics.	3
CPL2 610	Practical Communication and Presentation Skills .	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Advanced Human Resource Management (Gr. Cert.) (15 credits)

Offered by: Administration and Governance

Program credit weight: 15

Program Description

The Graduate Certificate in Advanced Human Resources Management focuses on the competencies needed to strategically manage and promote the development of organizations. Specialized competencies in areas such as compensation and rewards, technology and innovation in human resources, talent, and performance management, and strategically managing staff.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CORG 661	Developing Human Resources.	3
CORG 662	Total Compensation and Rewards.	3
CORG 665	Technology and Innovation in Human Resources .	3
CORG 667	Talent and Performance Management.	3

Complementary Courses (3 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
CORG 653	Employee and Labour Relations.	3
CORG 654	Managing Occupational Health and Safety.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the program adviser or academic unit.

Advanced Marketing (Gr. Cert.) (15 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Advanced Marketing focuses on the competencies needed to conceptualize, implement, and measure integrated marketing strategies based on consumer wants and needs. Exploration of strategic marketing including integrated marketing communications, consumer behaviour, marketing strategy, services marketing, digital marketing, and marketing research and reporting. This program is open to those who have successfully completed McGill University's Graduate Certificate in Marketing offered by the School of Continuing Studies.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMR2 664	Integrated Marketing Communications.	3
CMR2 668	Buyer Behaviour .	3
CMR2 691	Marketing Strategy.	3

Complementary Courses (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
CGM2 625	Sales Management and Negotiation Strategies.	3
CMR2 643	Marketing of Services.	3
CMR2 648	Marketing Research and Reporting.	3
CMR2 650	Digital Marketing Management.	3
CPL2 610	Practical Communication and Presentation Skills .	3
CPRL 610	Public Relations Fundamentals and Theory .	3

Or another 600-level course offered by the School of Continuing Studies approved by the academic unit.

Advanced Public Administration and Governance (Gr. Cert.) (15 credits)

Offered by: Administration & Governance

Program credit weight: 15

Program Description

The online 15-credit Graduate Certificate in Advanced Public Administration and Governance focuses on the advanced competencies and tools, including: facilitating strategic thinking, problem-solving, and decision-making in organizations in response to changing conditions; analyzing financial statements, budgets, costing, and key elements of the accounting framework; and designing and generating governance plans and leadership approaches

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CPAG 620	Leadership and Governance in Public Organizations.	3
CPAG 625	Public Finance, Budgeting and Reporting.	3
CPL2 652	Strategic Management.	3

Complementary Courses (6 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
CPL2 633	Developing Leadership Skills.	3
CPL2 634	Leading in Diverse and Inclusive Workplaces.	3

3 credits selected from:

Expand allContract all

Course	Title	Credits
CGM2 610	Project Management: Tools and Techniques.	3
CPAG 600	Lean Operations in Public Services.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the program adviser or academic unit.

Aviation Leadership (Gr. Cert.) (24 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 24

Program Description

Note: This program is not currently offered.

The Graduate Certificate in Aviation Leadership program focuses on developing leadership competencies for individuals who wish

to advance their careers in aviation. Participants will be exposed to innovative leadership practices, diverse workplace leadership, effective communication and negotiation, and data analytics. The Program uses a learner-centered instructional methodology, fostering a deeper understanding of aviation-related concepts and empowering learners to integrate what they have learned about leadership into immediate practice. Courses are also designed to focus on problem-solving skills and critical thinking. Courses incorporate aviation-related simulations, experiential activities, case studies, and guest speakers who are industry leaders with expertise in airlines, airports, air navigation, aerospace manufacturing, and other related areas.

Required Courses (24 credits)

Expand allContract all		
Course	Title	Credits
CGM2 610	Project Management: Tools and Techniques.	3
CIAM 550	Commun and Networking Skills for Aviation Professionals.	3
CIAM 552	Analytics and Bus. Intelligence for Aviation Professionals.	3
CORG 651	Behaviour in Organizations.	3
CPL2 632	Leading Change and Innovation .	3
CPL2 633	Developing Leadership Skills.	3
CPL2 634	Leading in Diverse and Inclusive Workplaces.	3
CPL2 652	Strategic Management.	3

Note: The courses in this program have an aviation focus.

Business Management (Gr. Cert.) (15 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Business Management introduces the competencies necessary to succeed in a management position. It focusses on communication, problem-solving, critical thinking, and teamwork skills, while exploring shifting trends, new technologies, and essential techniques relevant to general and business management field. Complete both the Graduate Certificate in Business Management and the Graduate Certificate in Advanced Business Management fulfils the Canadian Institute of Management's academic requirement for the Chartered Manager designation.

Required Courses (9 credits)

Expand allContract all		
Course	Title	Credits
CEC2 632	Business Economics.	3
CGM2 620	Agile Project Management: Theory and Practice.	3
CMR2 642	Marketing Principles and Applications.	3

Complementary Courses

6 credits selected from:

Course	Title	Credits
CACC 621	Concepts of Financial Accounting.	3
CCLW 611	Business Law Concepts.	3
CGM2 610	Project Management: Tools and Techniques.	3
CORG 651	Behaviour in Organizations.	3
CPL2 610	Practical Communication and Presentation Skills .	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Data Analysis for Complex Systems (Gr. Cert.) (15 credits)

Offered by: Technology & Innovation

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Data Analysis for Complex Systems is designed to equip learners who do not necessarily have a technical background with the fundamentals of complex systems. The program focusses on applying data analysis techniques to better understand different phenomena in fields such as financial technology, organizational management, or digital marketing. The program is offered online with synchronous course activities.

Required Courses (9 credits)

Expand allContract all		
Course	Title	Credits
CCCS 610	Digital Thinking for Data Analysis.	3
CCCS 620	Data Analysis and Modelling .	3
CCCS 630	Complex Systems.	3

Complementary Courses (6 credits)

6 credits selected from:

Course	Title	Credits
CCCS 670	Information Visualization.	3
CCCS 680	Scalable Data Analysis.	3
CCCS 690	Applied Computational Research.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Data-Driven Decision Making (Gr. Cert.) (15 credits)

Offered by: Technology & Innovation

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Data-Driven Decision Making is designed to provide the fundamentals of computational intelligence focusing on leadership roles in increasingly digital organizations operating in the numerous fields that need to make data-driven decisions such as digital healthcare, maintenance of critical infrastructure, or dynamic supply management. The program is offered online with synchronous course activities.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CCCS 640	Applied Decision Science.	3
CCCS 650	Applied Data Science.	3
CCCS 660	Computational Intelligence.	3

Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
CCCS 670	Information Visualization.	3
CCCS 680	Scalable Data Analysis.	3
CCCS 690	Applied Computational Research.	3

Or another 600-level course offered by the School of Continuous Studies and approved by the academic unit.

Digital Health Solutions (Gr. Cert.) (15 credits)

Offered by: Administration & Governance (School of Continuing Studies)

Program credit weight: 15

Program Description

The online Graduate Certificate in Digital Health Solutions offers a comprehensive introduction to Health Tech, focusing on the digitization of the healthcare sector. The program provides the necessary knowledge and skills for the application of Artificial Intelligence (AI)-based technologies in healthcare, the constantly advancing technology, and developing innovative solutions to the current and future healthcare sector challenges. Topics include leading change, exploring artificial intelligence and data governance in healthcare.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CHLC 620	Data Governance in Healthcare.	3
CHLC 630	Artificial Intelligence in Healthcare.	3
CPL2 632	Leading Change and Innovation .	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
CCCS 610	Digital Thinking for Data Analysis.	3
CCCS 620	Data Analysis and Modelling .	3
CCCS 670	Information Visualization.	3
CHLC 690	Special Topics in Healthcare.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Dynamic Supply Networks (Gr. Cert.) (15 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Dynamic Supply Networks program introduces the competencies needed to succeed in a changing supply management landscape by addressing global shifts in sustainability, strategy, governance, manufacturing, procurement, and logistics. Topics include creating sustainable supply networks, procurement management, logistics and supply economics, contracting management, project management, and global distribution networks.

Co-Requisite Course (3 credits)

- CMS2 500 Mathematics for Management.

¹ or the Exemption by Examination Test

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CSNM 605	Dynamic Supply Networks Transformation.	3
CSNM 608	Dynamic Supply Networks Sustainability .	3
CSNM 610	Principles of Dynamic Supply Networks.	3

Complementary Courses (6 credits)

6 credits selected from:

Expand allContract all

Course	Title	Credits
CCCS 640	Applied Decision Science.	3
CSNM 612	Dynamic Supply Networks Sourcing and Purchasing .	3
CSNM 620	Dynamic Supply Networks Data Analytics .	3

CSNM 632	Dynamic Supply Networks and Lean Operations Systems .	3
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Or another 600-level course approved by the program adviser or academic unit.

Entrepreneurship (Gr. Cert.) (15 credits)

Note: This program is not currently offered.

Offered by: Management & Entrepreneurship

Program credit weight: 15

Program Description

This Graduate Certificate program is designed for students with a Bachelor of Commerce who are interested in starting a business of their own. The program provides a thorough understanding of what is required to start and maintain a sustainable venture, with a specific focus on the needs of contemporary entrepreneurs. This includes adapting to various circumstances in a world where business and the global marketplace are rapidly changing, emphasizing modern approaches to entrepreneurial practices.

In addition to the admission requirements stipulated for Graduate Certificates, students must have a Bachelor of Commerce degree with a minimum CGPA of 3.0 out of 4.0 or 3.2 out of 4.0 in the last two years of full-time academic studies.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CEN2 500	New Venture Formation.	3
CEN2 506	Financing Startups and Ventures.	3
CEN2 510	Practical Entrepreneurship Management.	3
CGM2 625	Sales Management and Negotiation Strategies.	3

Complementary Course (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
CGM2 610	Project Management: Tools and Techniques.	3
CMIS 530	Digital Analytics and Targeting.	3
CMIS 544	Digital Marketing Automation, Planning and Technology.	3
CMIS 549	Digital Media and Search Engine Optimization.	3
CMS2 621	Applied Management Statistics.	3
CPL2 524	Introduction: International Business.	3

Or any other 500- or 600-level course offered and approved by Career and Professional Development.

Financial Analysis (Gr. Cert.) (15 credits)

Offered by: Administration & Governance

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Financial Analysis offers a comprehensive introduction to finance. Focusing on core professional competencies in financial analysis, it also provides flexibility in alternative career directions within the Finance sector, such as Investment Management, Financial Technology, and ESG (Environmental, Social, and Governance) Investing. Successful completion of this program allows students to write the Level I CFA exam.

Corequisite Course (3 credits)

Expand allContract all

Course	Title	Credits
CCFA 605	Quantitative Methods for Accounting and Finance	3

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CCFA 600	Ethics in Finance.	1.5
CCFA 601	Financial Analysis Tools.	3
CCFA 615	Financial Statement Analysis .	3
CCFA 620	Contemporary Finance 1.	3
CCFA 627	Financial Risk Management .	1.5

Complementary Courses (3 credits)

3 credits selected from:

Expand allContract all

Course	Title	Credits
CCFA 629	Fixed-Income and Equity Investments.	3
CCFA 639	ESG Investing.	3
CCFA 660	Fintech and the Financial System.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Financial Technology (Gr. Cert.) (15 credits)

Offered by: Administration & Governance

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Financial Technology offers an introduction to Fintech, including the digitization of financial services. The program focuses on the field's core competencies, such

as modelling and visualizing financial data and developing machine learning financial applications, as well as those related to alternative specializations including developing financial market technologies and financial technology platform solutions. The program is offered online with synchronous and asynchronous course activities.

Corequisite Course (0-3 credits)

Expand allContract all

Course	Title	Credits
CCCS 620	Data Analysis and Modelling . ¹	3
CCFA 601	Financial Analysis Tools. ¹	3

¹ or the Exemption by Examination Test

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CCFA 655	Financial Modelling and Visualization.	3
CCFA 660	Fintech and the Financial System.	3
CCFA 665	Machine Learning and Big Data in Finance.	3

Complementary Courses (6 credits)

6 credits from the following:

Expand allContract all

Course	Title	Credits
CCFA 670	Advanced Financial Modelling and Visualization .	3
CCFA 675	Decentralized Finance and Digital Assets.	3
CCFA 680	Advanced Financial Technologies.	3
CCFA 690	Special Topics in Financial Technology.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Human Resources Management (Gr. Cert.) (15 credits)

Offered by: Administration & Governance

Program credit weight: 15

Program Description

The Graduate Certificate in Human Resources Management is an introduction of the competencies needed for the specialized functions of human resources management. Areas of focus include organizational behaviour, strategic human resources management, human resources management legal frameworks, occupational health and safety, and equity, diversity, and inclusion in the workplace.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CORG 651	Behaviour in Organizations.	3
CORG 655	Strategic Human Resources Management.	3
CORG 660	Staffing Organizations.	3

Complementary Courses (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
CORG 653	Employee and Labour Relations.	3
CORG 654	Managing Occupational Health and Safety.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the program advisor or academic unit.

Integrated Supply Networks (Gr. Cert.) (15 credits)

Offered by: Management & Entrepreneurship

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Integrated Supply Networks program focuses on the specialized, strategic-level competencies of the highly volatile supply networks space in which automation and AI-based solutions are now integrated into supply chain logistics and processes. The program includes key topics on: the evolution of the digital supply network landscape; design considerations for ensuring that supply networks are environmentally sound, socially responsible, and well governed; dynamic modelling; sustainable management of materials; and strategies for managing clients and services in an online setting.

Co-Requisite Course (3 credits)

Expand allContract all

Course	Title	Credits
CMS2 500	Mathematics for Management.	1 3

¹ or the Exemption by Examination Test

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CSNM 615	Integrated Production and Operations Management .	3
CSNM 635	ESG in Integrated Supply Networks.	3
CSNM 650	Integrated Supply Networks Field Project.	3

Complementary Courses

6 credits from:

Expand allContract all

Course	Title	Credits				Credits
CSNM 605	Dynamic Supply Networks Transformation.	3	CCTR 557	Legal Translation: Statutes&Regulations (English to French).	2	
CSNM 610	Principles of Dynamic Supply Networks.	3	CCTR 645	Legal Translation: Securities Law (English to French).	2	
CSNM 630	Global Supply Management and International Logistics .	3	CCTR 660	Current Trends in Legal Translation.	2	
CSNM 640	Six-Sigma and Supply Networks .	3				
CSNM 690	Special Topics in Supply Networks.	3				

Or another 600-level course offered by the School of Continuing Studies and approved by the academic unit.

Legal Translation (Gr. Dip.) (30 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 30

Program Description

The Graduate Diploma in Legal Translation is a 30-credit graduate-level, online program designed to meet the need for professionally trained legal translators and jurilinguists in Canada in both the public and private sectors. The program provides training not only in translation, but also in revision, co-writing of legal texts, consultancy in legal aspects of language in multiple professional settings, and principles and practices encountered in jurilinguistics and legal translation in key, high-demand sectors.

The maximum time for finishing the program is four years. Fall and winter entry options are offered.

Required Courses (21 credits)

Expand allContract all

Course	Title	Credits
CCTR 531	Introduction to Law for Non-Jurists	3
CCTR 532	Introduction to Translation	3
CCTR 534	Professional Writing for Law	3
CCTR 536	Advanced Revision for Law	3
CCTR 541	Legal Translation: General.	3
CCTR 605	Applied Project 1	3
CCTR 606	Applied Project 2	3

Complementary Courses (9 credits)

6 credits from either French Stream or English Stream:

French Stream

6 credits from:

Expand allContract all

Course	Title	Credits
CCTR 553	Legal Translation: Judgments (English to French).	2
CCTR 555	Legal Translation: Contracts (English to French).	2

English Stream

Expand allContract all

Course	Title	Credits
CCTR 554	Legal Translation: Judgments (French to English).	2
CCTR 556	Legal Translation: Contracts (French to English).	2
CCTR 558	Legal Translation: Statutes&Regulations (French to English).	2
CCTR 642	Legal Translation: Securities Law (French to English).	2
CCTR 660	Current Trends in Legal Translation.	2

3 credits from:

Expand allContract all

Course	Title	Credits
CCTR 530	Applied Jurilinguistics	3
CCTR 535	Introduction to Language Technologies.	3
CCTR 599	Special Topics in Translation Studies.	3
CCTR 601	Independent Studies.	3
CCTR 602	Special Topics in Legal Translation 1.	3

Or any other 500- or 600-level course offered by the School of Continuing Studies approved by the academic unit.

Marketing (Gr. Cert.) (15 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 15

Program Description

The 15-credit Graduate Certificate in Marketing introduces the core competencies of marketing, including evolving marketing principles and theory, market segmentation, marketing research and reporting, digital marketing management, communication and presentation skills, sales and negotiation, and marketing of services.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CMR2 642	Marketing Principles and Applications.	3
CMR2 648	Marketing Research and Reporting.	3
CMR2 650	Digital Marketing Management.	3

Complementary Courses (6 credits)

6 credits from:

Expand allContract all

Course	Title	Credits
CGM2 625	Sales Management and Negotiation Strategies.	3
CMR2 643	Marketing of Services.	3
CPL2 610	Practical Communication and Presentation Skills .	3
CPRL 610	Public Relations Fundamentals and Theory .	3
CPRL 644	Integrated Digital Communications.	3

Or any other 600-level course offered by the School of Continuing Studies approved by the academic unit.

Multilingual Digital Communication (Non-Thesis) (M.Sc.A.) (45 credits)

Offered by: Technology & Innovation

Degree: Master of Science Applied

Program credit weight: 45

Program Description

The M.Sc.(Applied) in Multilingual Digital Communication; Non-Thesis is an online 45-credit professional, transdisciplinary and cross-industry program that focuses on transversal competencies in translation, research, project management, copywriting and multilingualism management. Two streams are available, which relate to localized global communication and multilingual communication technologies.

Required Courses (27 credits)

Expand allContract all

Course	Title	Credits
CMDC 610	Approaches to Multilingualism Management.	3
CMDC 614	Translation Literacy in the Digital Age.	3
CMDC 616	Research Methods in Multilingual Digital Communication	3
CMDC 618	Language Technologies.	3
CMDC 620	Project Management for Global Content.	3

Capstone Experience

12 credits from either practicum, internship or project courses from the following:

Practicum

Expand allContract all

Course	Title	Credits
CMDC 694	Practicum 1.	6
CMDC 695	Practicum 2.	6

OR

Internship

Expand allContract all

Course	Title	Credits
CMDC 696	Intermship 1.	6
CMDC 697	Internship 2.	6

OR

Practicum

Expand allContract all

Course	Title	Credits
CMDC 698	Applied Research Project 1.	6
CMDC 699	Applied Research Project 2.	6

Complementary Courses (18 credits)

6 credits to be chosen from the following:

Expand allContract all

Course	Title	Credits
CMDC 622	Current Trends in Multilingual Digital Communication.	3
CMDC 623	Artificial Intelligence in Multilingual Communication	3
CMDC 643	Technical Writing.	3
CMDC 646	Global Digital Communication and Localization Strategies.	3
CMDC 650	Multilingual Content Management in Enterprise Solutions.	3
CMDC 653	Data Structure for Language Professionals.	3

12 credits to be chosen from Stream 1 or Stream 2

Stream 1: Localized Global Communication (LGC)

Expand allContract all

Course	Title	Credits
CMDC 622	Current Trends in Multilingual Digital Communication.	3
CMDC 642	Social Media & Community Management in Multilingual Contexts.	3
CMDC 646	Global Digital Communication and Localization Strategies.	3
CMDC 652	Transcreation Lab	3

Stream 2: Multilingual Communication Technologies (MCT)

Expand allContract all

Course	Title	Credits
CMDC 623	Artificial Intelligence in Multilingual Communication	3
CMDC 645	Advanced Language Technology: Evaluation and Implementation.	3
CMDC 647	Translation and Large Language Models.	3

CMDC 650	Multilingual Content Management in Enterprise Solutions.	3
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Public Administration and Governance (Gr. Cert.) (15 credits)

Offered by: Administration & Governance

Program credit weight: 15

Program Description

The online 15-credit Graduate Certificate in Public Administration and Governance focusses on the core competencies and tools, including: analyzing legal and ethical issues relevant to public services; providing leadership in equity, diversity, and inclusion practices in the workplace; building processes and systems in public organizations; and responding as appropriate to current issues and practices that affect day-to-day operations and decision-making.

Required Courses (9 credits)

Expand allContract all

Course	Title	Credits
CORG 651	Behaviour in Organizations.	3
CPAG 610	Current Issues in Public Sector Management.	3
CPAG 615	Public Regulations and Ethics in the Public Sector.	3

Complementary Courses (6 credits)

3 credits from:

Expand allContract all

Course	Title	Credits
CPL2 633	Developing Leadership Skills.	3
CPL2 634	Leading in Diverse and Inclusive Workplaces.	3

3 credits from:

Expand allContract all

Course	Title	Credits
CGM2 610	Project Management: Tools and Techniques.	3
CPAG 600	Lean Operations in Public Services.	3

Or another 600-level course offered by the School of Continuing Studies and approved by the program adviser or academic unit.

Public Relations and Communication Management Practice (Gr. Cert.) (15 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 15

Program Description

The online 15-credit Graduate Certificate in Public Relations and Communications Management Practice introduces the field of public relations to those interested in entering the field. It addresses the competencies needed to conceptualize and implement communications actions through traditional and digital platforms within a strategic frame. Areas of focus include public relations theory, written and visual content creation, internal communications and employee engagement, media and influencer relations, digital communications, and ethics.

Required Courses (12 credits)

Expand allContract all

Course	Title	Credits
CPRL 610	Public Relations Fundamentals and Theory .	3
CPRL 620	Content Creation for Public Relations.	3
CPRL 630	Internal Communications and Employee Engagement.	3
CPRL 631	Media and Influencer Relations .	3

Complementary Course (3 credits)

• 3 credits from:

Expand allContract all

Course	Title	Credits
CPRL 641	Ethics in Public Relations.	3
CPRL 644	Integrated Digital Communications.	3

Or 3 credits at the 600-level approved by the program adviser or academic unit.

Strategic Public Relations and Communications Management (Gr. Cert.) (15 credits)

Offered by: Global & Strategic Comm.

Program credit weight: 15

Program Description

The online 15-credit Graduate Certificate in Strategic Public Relations and Communications Management focuses on the competencies needed to strategize, advise on, conceptualize, implement and measure strategic communications efforts in various internal and external contexts according to ethical and professional codes and standards. This program is designed for those working in the field who want to advance their academic background and/or those who have obtained the Graduate Certificate in Public Relations and Communication Management Practice. It delves into areas of public relations specialization including corporate communication, media and influencer relations, communication strategy, and public relations measurement and analytics.

Required Courses (9 credits)

[Expand all](#)[Contract all](#)

Course	Title	Credits
CPRL 633	Corporate and Organizational Communications.	3
CPRL 636	Public Relations Measurement, Data and Analytics .	3
CPRL 691	Communications Management and Strategy.	3

Complementary Courses (6 credits)

3 credits from the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
CPRL 631	Media and Influencer Relations .	3
CPRL 690	Special Topics in PR and Communications Management.	3

3 credits from the following courses:

[Expand all](#)[Contract all](#)

Course	Title	Credits
CPRL 641	Ethics in Public Relations.	3
CPRL 644	Integrated Digital Communications.	3

Or 3 credits at the 600-level approved by the program adviser or academic unit.