



FOR INFORMATION

PUBLIC

OPEN SESSION

TO: UTSC Academic Affairs Committee

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DATE: Tuesday March 22, 2016

AGENDA ITEM: 6

ITEM IDENTIFICATION:

Editorial Changes to Curriculum—All UTSC Undergraduate Academic Units

JURISDICTIONAL INFORMATION:

University of Toronto Scarborough Academic Affairs Committee (AAC) “is concerned with matters affecting the teaching, learning and research functions of the Campus (AAC *Terms of Reference, Section 4*).” Under section 5.7 of its Terms of Reference, the Committee “receives annually from its assessors, reports on matters within its areas of responsibility.”

GOVERNANCE PATH:

- 1. UTSC Academic Affairs Committee [For Information] (March 22, 2016)**

PREVIOUS ACTION TAKEN:

No previous action in governance has been taken on this item.

HIGHLIGHTS:

The Office of the Vice-Principal Academic and Dean reports, for information, all non-curricular editorial changes to undergraduate programs and courses.

Non-curricular editorial changes include:

- Changes to course titles;
- Changes to course descriptions (where there are no changes to the learning outcomes);

- Acknowledging the deletion of a course in a program or another course;
- Revisions to program admission or enrolment information that has no impact on the program requirements;
- Overview or introductory paragraphs about academic units or programs; and
- Routes to specialization and guides to course sequencing.

FINANCIAL IMPLICATIONS:

There are no net financial implications to the campus operating budget.

RECOMMENDATION:

This item is presented for information only

DOCUMENTATION PROVIDED:

1. 2016-17 Curriculum Cycle, Editorial Changes: Courses Compare Report, created March 9, 2016
2. 2016-17 Curriculum Cycle, Editorial Changes: Programs Compare Report, created March 9, 2016
3. 2016-17 Curriculum Cycle: Course Title Changes, dated March 9, 2016

Created March 9, 2016Editor - Annette Knott, University of Toronto Scarborough 2016-2017 (Unlocked) | [Logout](#)

UNIVERSITY OF
TORONTO

Total 362 courses - Compare

The initial and current values are shown

Initial Value

Current Value

Course: ACMA01H3 - Compare

Owning Organizations	ACMSC,ACM	ACMSC,ACM
Sections	2016 - Arts, Culture and Media	2016 - Arts, Culture and Media
Calendar Title	Exploring Key Questions in the Humanities	Exploring Key Questions in Arts, Culture and Media
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Academic study in Arts, Culture and Media is distinguished by its critical and historical approaches to text, image, and sound. This course introduces students to key questions through lectures and readings, performances, and small group discussions. Students experience the dynamism and diversity of the humanities and humanistic inquiry while refining their critical thinking and communication skills. ACMA01H3 is a writing-intensive course that offers students regular constructive feedback.	ACMA01H3 surveys the cultural achievements of the humanities in visual art, language, music, theatre, and film within their historical, material, and philosophical contexts. Students gain understanding of the meanings of cultural works and an appreciation of their importance in helping define what it means to be human.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None

Experiential Learning - Other Learning Nature Prerequisite Corequisite	None	None
Exclusion	(HUMA01H3)	(HUMA01H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: AFSC52H3 - Compare

Owning Organizations	AFS,HCSSC	AFS,HCSSC
Sections	2016 - African Studies	2016 - African Studies
Calendar Title	Ethiopia: Seeing History	Ethiopia: Seeing History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. Same as HISC52H3 and VPHC52H3	This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. Same as HISC52H3 and VPHC52H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	[1.0 credit in History] or VPHA46H3 and ACMB01H3 and an additional 1.0 credit in History	[1.0 credit in History] or VPHA46H3 and ACMB01H3 and an additional 1.0 credit in VPH courses
Corequisite		
Exclusion	HISC52H3 , VPHC52H3	HISC52H3 , VPHC52H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: ANTC18H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2016 - Anthropology	2016 - Anthropology
Calendar Title	Urban Anthropology	Urban Anthropology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Urban spaces, neighbourhoods, and institutions have at different times been the focus of ethnographic studies of cities. In this course we will examine the role of culture, cultural diversity, space and performance in urban institutions.	Urban spaces, neighbourhoods, and institutions have at different times been the focus of ethnographic studies of cities. In this course we will examine the role of culture, cultural diversity, space and performance in urban institutions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ANTB19H3 and ANTB20H3	ANTB19H3 and ANTB20H3 or [1.5 credits at the B-level in CIT courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: ANTC24H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2016 - Anthropology	2016 - Anthropology
Calendar Title	Culture, Mental Illness, and Psychiatry	Culture, Mental Illness, and Psychiatry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Does schizophrenia exist all over the world? Does depression look different in China than it does in Canada? By examining how local understandings of mental illness come into contact with Western psychiatric models, this course considers the role of culture in the experience, expression, definition, and treatment of mental illness and questions the universality of Western psychiatric categories.	Does schizophrenia exist all over the world? Does depression look different in China than it does in Canada? By examining how local understandings of mental illness come into contact with Western psychiatric models, this course considers the role of culture in the experience, expression, definition, and treatment of mental illness and questions the universality of Western psychiatric categories.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ANTB19H3 and ANTB20H3	ANTB19H3 and ANTB20H3 or HLTB42H3
Corequisite		
Exclusion		
Recommended Preparation	ANTC61H3	ANTC61H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: ANTC40H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2016 - Anthropology	2016 - Anthropology
Calendar Title	Methods and Analysis in Anthropological Demography	Methods and Analysis in Anthropological Demography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of the biological, demographic, ecological and socio-cultural determinants of human and non-human population structure and the interrelationships among them. Emphasis is given to constructing various demographic measures of mortality, fertility and immigration and their interpretation. Science credit	An examination of the biological, demographic, ecological and socio-cultural determinants of human and non-human population structure and the interrelationships among them. Emphasis is given to constructing various demographic measures of mortality, fertility and immigration and their interpretation. Science credit
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	(ANTC39H3)	ANTB14H3 and ANTB15H3 and any statistics course
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: ANTC53H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2016 - Anthropology	2016 - Anthropology
Calendar Title	Anthropology of Media and Publics	Anthropology of Media and Publics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How do media work to circulate texts, images, and stories? Do media create unified publics? How is the communicative process of media culturally-distinct? This course examines how anthropologists have studied communication that occurs through traditional and new media. Ethnographic examples drawn from several contexts. Same as MDSC53H3	How do media work to circulate texts, images, and stories? Do media create unified publics? How is the communicative process of media culturally-distinct? This course examines how anthropologists have studied communication that occurs through traditional and new media. Ethnographic examples drawn from several contexts. Same as MDSC53H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3]	[ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3] and ACMB01H3]
Corequisite		
Exclusion	MDSC53H3	MDSC53H3
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: ANTC61H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2016 - Anthropology	2016 - Anthropology
Calendar Title	Medical Anthropology: Illness and Healing in Cultural Perspective	Medical Anthropology: Illness and Healing in Cultural Perspective
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Social and symbolic aspects of the body, the life-cycle, the representation and popular explanation of illness, the logic of traditional healing systems, the culture of North American illness and biomedicine, mental illness, social roots of disease, innovations in health care delivery systems.	Social and symbolic aspects of the body, the life-cycle, the representation and popular explanation of illness, the logic of traditional healing systems, the culture of North American illness and biomedicine, mental illness, social roots of disease, innovations in health care delivery systems.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ANTB19H3 and ANTB20H3	ANTB19H3 and ANTB20H3 or HLTB42H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		60
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOA01H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Life on Earth: Unifying Principles	Life on Earth: Unifying Principles
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and laboratory course providing an overview of the origins and cellular basis of life, genetics and molecular biology, evolution and the diversity of microorganisms. Note: that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course.	A lecture and laboratory course providing an overview of the origins and cellular basis of life, genetics and molecular biology, evolution and the diversity of microorganisms. Note: that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Grade 12 Biology and Grade 12 Advanced Functions	Grade 12 Biology or BIOA11H3 and Grade 12 Advanced Functions
Corequisite		
Exclusion	BIO120H, BIO130H, (BIO150Y); (BGYA01H3)	BIO120H, BIO130H, (BIO150Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOA02H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Life on Earth: Form, Function and Interactions	Life on Earth: Form, Function and Interactions
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and laboratory course providing an overview of the anatomy and physiology of plants and animals, population biology, ecology and biodiversity. Note: that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course.	A lecture and laboratory course providing an overview of the anatomy and physiology of plants and animals, population biology, ecology and biodiversity. Note: that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Grade 12 Biology and Grade 12 Advanced Functions	Grade 12 Biology or BIOA11H3 and Grade 12 Advanced Functions
Corequisite		
Exclusion	BIO120H, BIO130H, (BIO150Y), (BGYA02H3)	BIO120H, BIO130H, (BIO150Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOA11H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Introduction to the Biology of Humans	Introduction to the Biology of Humans
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of how molecules and cells come together to build a regulate human organ systems. The course provides a foundation for understanding genetic principles and human disease, and applications of biology to societal needs. This course is intended for non-biology students.	An exploration of how molecules and cells come together to build a regulate human organ systems. The course provides a foundation for understanding genetic principles and human disease, and applications of biology to societal needs. This course is intended for non-biology students.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite		
Exclusion	BIOA01H3 , BIOA02H3 , CSB201H1	BIOA01H3 , BIOA02H3 , CSB201H1
Recommended Preparation		
Enrolment Limits		
Note	(1) Priority will be given to students in the Major/Major Co-op in Health Studies - Population Health. Students across all disciplines will be admitted is space permits. (2) Students who have passed BIOA11H3 will be permitted to take BIOA01H3 and BIOA02H3 .	(1) Priority will be given to students in the Major/Major Co-op in Health Studies - Population Health. Students across all disciplines will be admitted if space permits. (2) Students who have passed BIOA11H3 will be permitted to take BIOA01H3 and BIOA02H3 .
Instructor Hours		

**Available
Online**

No

No

Course: BIOB10H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Cell Biology	Cell Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to introduce theory and modern experimental techniques in cell biology. Emphasis will be on eukaryotic cells. Structure and function of major animal and plant organelles will be covered. Subsequent topics include the role of the cytoskeleton. Plasma membrane and extracellular matrix will also be detailed in the context of cell interactions with the environment.	This course is designed to introduce theory and modern experimental techniques in cell biology. Emphasis will be on eukaryotic cells. Structure and function of major animal and plant organelles will be covered. Subsequent topics include the role of the cytoskeleton. Plasma membrane and extracellular matrix will also be detailed in the context of cell interactions with the environment.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3
Corequisite		
Exclusion	(BGYB10H3), BIOB10Y3 , (BGYB10Y3), BIO241H, (BIO250Y)	BIOB10Y3 , BIO241H, (BIO250Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOB10Y3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Cell Biology and Molecular Aspects of Genetic Processes	Cell Biology and Molecular Aspects of Genetic Processes
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A course designed to introduce theory and modern experimental techniques in cell and molecular genetics. Emphasis will be on eukaryotic cells. First half topics include: Structure and function of major animal and plant organelles, the role of the cytoskeleton, the role of the plasma membrane and extracellular matrix in the context of cellular interactions with the environment. In the second half of the course topics will include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation, signal transduction and basic aspects of immunology. Please note this course contains the content of both BIOB10H3 and BIOB11H3.	A course designed to introduce theory and modern experimental techniques in cell and molecular genetics. Emphasis will be on eukaryotic cells. First half topics include: Structure and function of major animal and plant organelles, the role of the cytoskeleton, the role of the plasma membrane and extracellular matrix in the context of cellular interactions with the environment. In the second half of the course topics will include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation, signal transduction and basic aspects of immunology. Please note this course contains the content of both BIOB10H3 and BIOB11H3.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3
Corequisite		
Exclusion	BIOB10H3 , BIOB11H3 , (BGYB10H3), (BGYB10Y3), (BGYB11H3), BIO240H, BIO241H, (BIO250Y)	BIOB10H3 , BIOB11H3 , BIO240H, BIO241H, (BIO250Y)
Recommended Preparation		

**Enrolment
Limits
Note
Instructor
Hours
Available
Online**

No

No

Course: BIOB11H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Molecular Aspects of Cellular and Genetic Processes	Molecular Aspects of Cellular and Genetic Processes
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A course focusing on the central dogma of genetics and how molecular techniques are used to investigate cellular processes. Topics include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation and signal transduction.	A course focusing on the central dogma of genetics and how molecular techniques are used to investigate cellular processes. Topics include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation and signal transduction.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOB10H3	BIOB10H3
Corequisite		
Exclusion	BIOB10Y3 , (BGYB10Y3), (BGYB11H3), BIO230H, (BIO250Y)	BIOB10Y3 , BIO230H, (BIO250Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOB12H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Cell and Molecular Biology Laboratory	Cell and Molecular Biology Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A practical introduction to experimentation in cell and molecular biology. Lab modules will introduce students to concepts and techniques in the general preparation of solutions and buffers, microbiology, molecular biology, biochemistry, microscopy and data manipulation and communication skills. This core laboratory course is the gateway for Cell & Molecular biology specialists to upper level laboratory offerings.	A practical introduction to experimentation in cell and molecular biology. Lab modules will introduce students to concepts and techniques in the general preparation of solutions and buffers, microbiology, molecular biology, biochemistry, microscopy and data manipulation and communication skills. This core laboratory course is the gateway for Cell & Molecular biology specialists to upper level laboratory offerings.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	CHMA10H3 & CHMA11H3	CHMA10H3 & CHMA11H3
Corequisite	BIOB11H3 or BIOB10Y3	BIOB11H3 or BIOB10Y3
Exclusion	BIO215H, (BGYB12H3)	BIO215H
Recommended Preparation		
Enrolment Limits		
Note	Priority will be given to students enrolled in the specialist programs in Applied Microbiology, Cell and Molecular Biology (Co-op and non-Co-op), Biological Chemistry and the major program in Biochemistry. Additional students will be admitted as space permits.	Priority will be given to students enrolled in the specialist programs in Applied Microbiology, Cell and Molecular Biology (Co-op and non-Co-op), Biological Chemistry and the major program in Biochemistry. Additional students will be admitted as space permits.
Instructor		

Hours

Available

Online

No

No

Course: BIOB32H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Physiology Laboratory	Animal Physiology Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines physiological mechanisms that control and co-ordinate the function of various systems within the body. The laboratory exercises examine properties of digestive enzymes, characteristics of blood, kidney function, metabolic rate and energetics, nerve function and action potentials, synaptic transmission, skeletal muscle function and mechanoreception.	This course examines physiological mechanisms that control and co-ordinate the function of various systems within the body. The laboratory exercises examine properties of digestive enzymes, characteristics of blood, kidney function, metabolic rate and energetics, nerve function and action potentials, synaptic transmission, skeletal muscle function and mechanoreception.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite	(BIOB30H3) or BIOB34H3	(BIOB30H3) or BIOB34H3
Exclusion	(BGYB32H3), BIO252Y, BIO270H, BIO271H, (ZOO252Y)	BIO252Y, BIO270H, BIO271H, (ZOO252Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOB33H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Human Development and Anatomy	Human Development and Anatomy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and laboratory course which deals with the functional morphology of the human organism. The subject matter extends from early embryo-genesis through puberty to late adult life. Priority will be given to students in the Human Biology programs. Additional students will be admitted as space permits.	A lecture and laboratory course which deals with the functional morphology of the human organism. The subject matter extends from early embryo-genesis through puberty to late adult life. Priority will be given to students in the Human Biology programs. Additional students will be admitted as space permits.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOA01H3 & BIOA02H3	BIOA01H3 & BIOA02H3
Corequisite		
Exclusion	ANA300Y, ANA301H, BGYB33H3	ANA300Y, ANA301H, PMDB33H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOB34H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Physiology	Animal Physiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the principles of animal physiology rooted in energy usage and cellular physiology. A comparative approach is taken, which identifies both the universal and unique mechanisms present across the animal kingdom. Metabolism, respiration, circulation, water regulation, movement and neural circuits are the areas of principal focus.	An introduction to the principles of animal physiology rooted in energy usage and cellular physiology. A comparative approach is taken, which identifies both the universal and unique mechanisms present across the animal kingdom. Metabolism, respiration, circulation, water regulation, movement and neural circuits are the areas of principal focus.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOA01H3 & BIOA02H3	BIOA01H3 and BIOA02H3 and CHMA10H3 and CHMA11H3
Corequisite		
Exclusion	(BIOB30H3),(BGYB30H3), BIO270H, BIO204H	(BIOB30H3), BIO270H, BIO204H
Recommended Preparation		MATA29H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOB38H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Plants and Society	Plants and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How do plants feed humans? What are agricultural origins and what plant traits changed in domesticated plants? Human population is at 7 billion, but will climb to 10 billion in 2050. This will tax our planet's ability to sustain life and environmentally sustainable food production will become more integral.	How do plants feed humans? What are agricultural origins and what plant traits changed in domesticated plants? Human population is at 7 billion, but will climb to 10 billion in 2050. This will tax our planet's ability to sustain life and environmentally sustainable food production will become more integral.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 and BIOA02H3	BIOA01H3 and BIOA02H3
Corequisite		
Exclusion	(BIOC38H3), EEB202H, EESB16H3	(BIOC38H3), EEB202H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOB50H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Ecology	Ecology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the main principles of ecology, the science of the interactions of organisms with each other and with their environment. The course covers community and population ecology, and provides an emphasis on how ecology relates to other areas of biology, and to contemporary human and environmental issues.	An introduction to the main principles of ecology, the science of the interactions of organisms with each other and with their environment. The course covers community and population ecology, and provides an emphasis on how ecology relates to other areas of biology, and to contemporary human and environmental issues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOA01H3 & BIOA02H3	BIOA01H3 & BIOA02H3
Corequisite		
Exclusion	(BGYB50H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOB51H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Evolutionary Biology	Evolutionary Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students learn about development of evolutionary theory, maintenance of genetic variation, mechanisms of evolutionary change, adaptation, and current research topics in evolution.	Students learn about development of evolutionary theory, maintenance of genetic variation, mechanisms of evolutionary change, adaptation, and current research topics in evolution.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOA01H3 & BIOA02H3	BIOA01H3 & BIOA02H3
Corequisite		
Exclusion	(BGYB51H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOB52H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Ecology and Evolutionary Biology Laboratory	Ecology and Evolutionary Biology Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to field, lab and computational approaches to ecology and evolution. Laboratories will explore a variety of topics, ranging from population genetics to community ecology and biodiversity. Some lab exercises will involve outdoor field work.	An introduction to field, lab and computational approaches to ecology and evolution. Laboratories will explore a variety of topics, ranging from population genetics to community ecology and biodiversity. Some lab exercises will involve outdoor field work.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 and BIOA02H3	BIOA01H3 and BIOA02H3
Corequisite	BIOB50H3 or BIOB51H3	BIOB50H3 or BIOB51H3
Exclusion	(BGYB52H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC12H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Biochemistry I: Proteins & Enzymes	Biochemistry I: Proteins & Enzymes
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture course describing factors involved in determining protein structures and the relationship between protein structure and function. Topics include: amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycoproteins; membrane proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.	A lecture course describing factors involved in determining protein structures and the relationship between protein structure and function. Topics include: amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycoproteins; membrane proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3 & CHMB42H3	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3
Corequisite		
Exclusion	CHMB62H3 , BCH210H, BCH242Y, BCH310H, (BGYC12H3)	CHMB62H3 , BCH210H, BCH242Y, BCH310H
Recommended Preparation		CHMB42H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC13H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Biochemistry II: Bioenergetics and Metabolism	Biochemistry II: Bioenergetics and Metabolism
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture course that introduces cellular metabolism, the process by which living organisms extract and utilize energy from their environment. Topics include: bioenergetics; oxidative phosphorylation; aspects of carbohydrate, lipid and amino acid metabolism; regulation of metabolism; and, the integration of metabolic pathways.	A lecture course that introduces cellular metabolism, the process by which living organisms extract and utilize energy from their environment. Topics include: bioenergetics; oxidative phosphorylation; aspects of carbohydrate, lipid and amino acid metabolism; regulation of metabolism; and, the integration of metabolic pathways.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3 & CHMB42H3	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3
Corequisite		
Exclusion	CHMB62H3 , BCH210H, BCH242Y, BCH310H, (BGYC13H3)	CHMB62H3 , BCH210H, BCH242Y, BCH310H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOC15H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Genetics	Genetics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Topics for this lecture and laboratory (or project) course include: a brief review of DNA structure, transcription, and translation; inheritance and its chromosomal basis; gene interactions; sources and types of mutations and the relationship of mutation to genetic disease and evolution; genetic dissection of biological processes; genetic technologies and genomic approaches.	Topics for this lecture and laboratory (or project) course include: a brief review of DNA structure, transcription, and translation; inheritance and its chromosomal basis; gene interactions; sources and types of mutations and the relationship of mutation to genetic disease and evolution; genetic dissection of biological processes; genetic technologies and genomic approaches.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & [(MATA21H3) or MATA35H3 or MATA36H3 or MATA37H3] or PSYB07H3 or STAB22H3]	[[BIOB10H3 & BIOB11H3] or BIOB10Y3] & [PSYB07H3 or STAB22H3]
Corequisite		
Exclusion	(BGYC15H3), BIO260H , HMB265H	BIO260H , HMB265H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC16H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Evolutionary Genetics and Genomics	Evolutionary Genetics and Genomics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will discuss modern genetic and genomic techniques used to understand the maintenance of genetic variation in nature. Topics include DNA sequence evolution, molecular phylogenetics, methods of detecting selection, sequence alignments, and comparative genomics.	This course will discuss modern genetic and genomic techniques used to understand the maintenance of genetic variation in nature. Topics include DNA sequence evolution, molecular phylogenetics, methods of detecting selection, sequence alignments, and comparative genomics.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB51H3	BIOB51H3
Corequisite		
Exclusion	(BGYC16H3)	
Recommended Preparation	BIOC15H3	BIOC15H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC17H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Microbiology	Microbiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course presents an overview of the microbial world and introduces the students, in more detail, to the physiological, cellular and molecular aspects of bacteria. The laboratories illustrate principles and provide training in basic microbiological techniques essential to microbiology and to any field where recombinant DNA technology is used.	This course presents an overview of the microbial world and introduces the students, in more detail, to the physiological, cellular and molecular aspects of bacteria. The laboratories illustrate principles and provide training in basic microbiological techniques essential to microbiology and to any field where recombinant DNA technology is used.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]
Corequisite		
Exclusion	(BGYC17H3), MGY377H, (MBY377H)	MGY377H, (MBY377H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC19H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Developmental Biology	Animal Developmental Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Following a discussion of cellular and molecular events in early embryonic life, the development of several model systems will be analyzed such as erythropoiesis, lens development in the eye, spermatogenesis and myogenesis. Particular reference will be given to the concept that regulation of gene expression is fundamental to development.	Following a discussion of cellular and molecular events in early embryonic life, the development of several model systems will be analyzed such as erythropoiesis, lens development in the eye, spermatogenesis and myogenesis. Particular reference will be given to the concept that regulation of gene expression is fundamental to development.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[BIOB10H3 & BIOB11H3] or BIOB10Y3	[BIOB10H3 & BIOB11H3] or BIOB10Y3
Corequisite		
Exclusion	(BGYC19H3) , CSB328H	CSB328H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC21H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Vertebrate Histology: Cells and Tissues	Vertebrate Histology: Cells and Tissues
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the structure of cells and the various tissue types which make up the vertebrate body; epithelial, connective, muscle, nervous, blood, and lymphatic. Emphasis is placed on how form is influenced by function of the cells and tissues.	A study of the structure of cells and the various tissue types which make up the vertebrate body; epithelial, connective, muscle, nervous, blood, and lymphatic. Emphasis is placed on how form is influenced by function of the cells and tissues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[BIOB10H3 or BIOB10Y3] & (BIOB30H3) or BIOB34H3	[BIOB10H3 or BIOB10Y3] & (BIOB30H3) or BIOB34H3
Corequisite		
Exclusion	ANA300Y, (BGYC21H3)	ANA300Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC23H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Practical Approaches to Biochemistry	Practical Approaches to Biochemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and laboratory course that introduces students to experimental approaches used in biochemical research. Topics include practical and theoretical aspects of: spectrophotometry; chromatography; electrophoresis; radioisotopes; enzyme assays, protein purification and approaches to identify protein-protein interactions. Students are expected to solve numerical problems involving these and related procedures.	A lecture and laboratory course that introduces students to experimental approaches used in biochemical research. Topics include practical and theoretical aspects of: spectrophotometry; chromatography; electrophoresis; radioisotopes; enzyme assays, protein purification and approaches to identify protein-protein interactions. Students are expected to solve numerical problems involving these and related procedures.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB12H3 and BIOC12H3	BIOB12H3 and BIOC12H3
Corequisite		
Exclusion	BCH370H, BCH371H, (BGYC23H3)	BCH370H, BCH371H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC31H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Plant Development and Biotechnology	Plant Development and Biotechnology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A central question of developmental biology is how does a single cell become a complex organism. This lecture course focuses on molecular and cellular mechanisms that control developmental processes in plants, including embryonic, vegetative, reproductive development; hormone signal transduction pathways; analysis of mutants, transgenic plants and their connection to biotechnology.	A central question of developmental biology is how does a single cell become a complex organism. This lecture course focuses on molecular and cellular mechanisms that control developmental processes in plants, including embryonic, vegetative, reproductive development; hormone signal transduction pathways; analysis of mutants, transgenic plants and their connection to biotechnology.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[BIOB10H3] and [BIOB11H3] or [BIOB10Y3]	[BIOB10H3] and [BIOB11H3] or [BIOB10Y3]
Corequisite		
Exclusion	CSB340H, (BOT340H), (BGYC31H3)	CSB340H, (BOT340H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC33H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Human Physiology II: Lecture and Laboratory	Human Physiology II: Lecture and Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will cover the physiology of the human respiratory, cardiovascular, renal and digestive systems. Topics include cardiac function, ECG, blood flow/pressure regulation, pulmonary mechanics, gas transfer and transport, the control of breathing, sleep-related breathing disorders, kidney function, ion regulation, water balance, acid-base balance and digestive function/regulation.	This course will cover the physiology of the human respiratory, cardiovascular, renal and digestive systems. Topics include cardiac function, ECG, blood flow/pressure regulation, pulmonary mechanics, gas transfer and transport, the control of breathing, sleep-related breathing disorders, kidney function, ion regulation, water balance, acid-base balance and digestive function/regulation.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	(BIOB30H3) or BIOB34H3 or NROB60H3	(BIOB30H3) or BIOB34H3 or NROB60H3 or BIO271H
Corequisite		
Exclusion	BIOC34H3 , (BGYC33H3), (BGYC34H3), PSL201Y, PSL301H, (PSL302Y)	BIOC34H3 , PSL301H, (PSL302Y)
Recommended Preparation		
Enrolment Limits	Priority will be given to students enrolled in the Human Biology program. Additional students will be admitted only if space permits.	
Note		*Priority will be given to students enrolled in the Human Biology program. Additional students will be admitted only if space permits.
Instructor		
Hours		

**Available
Online**

No

No

Course: BIOC34H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Human Physiology II: Lecture	Human Physiology II: Lecture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The lecture component of BIOC34H3 is identical to that described above for BIOC33H3. Students will complete a series of computer-simulated laboratory exercises (on their own time) instead of practical lab sessions.	The lecture component of BIOC34H3 is identical to that described above for BIOC33H3. Students will complete a series of computer-simulated laboratory exercises (on their own time) instead of practical lab sessions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	(BIOB30H3) or BIOB34H3 or NROB60H3	(BIOB30H3) or BIOB34H3 or NROB60H3 or BIO271H
Corequisite		
Exclusion	BIOC33H3 , (BGYC33H3), (BGYC34H3), (PSL302Y), PSL201Y , PSL301H	BIOC33H3 , (PSL302Y), PSL301H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC39H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Immunology	Immunology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces the molecular and cellular basis of the immune system. Topics include self versus non-self recognition, humoral and cell-mediated immune responses, and the structure and function of antibodies. The importance of the immune system in health and disease will be emphasized and topics include vaccination, autoimmunity, and tumour immunology.	This course introduces the molecular and cellular basis of the immune system. Topics include self versus non-self recognition, humoral and cell-mediated immune responses, and the structure and function of antibodies. The importance of the immune system in health and disease will be emphasized and topics include vaccination, autoimmunity, and tumour immunology.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 & BIOB11H3] or BIOB10Y3]	[[BIOB10H3 & BIOB11H3] or BIOB10Y3]
Corequisite		
Exclusion	IMM334Y , IMM335Y	IMM340H , IMM341H , IMM350H , IMM351H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC40H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Plant Physiology	Plant Physiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to plant biology. Topics include plant and cell structure, water balance, nutrition, transport processes at the cell and whole plant level, physiological and biochemical aspects of photosynthesis, and growth and development in response to hormonal and environmental cues.	An introduction to plant biology. Topics include plant and cell structure, water balance, nutrition, transport processes at the cell and whole plant level, physiological and biochemical aspects of photosynthesis, and growth and development in response to hormonal and environmental cues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]] and BIOB38H3	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]] and BIOB38H3
Corequisite		
Exclusion	(BIOB31H3), BIO251Y, (BOT251Y), (BGYB31H3)	(BIOB31H3), BIO251Y, (BOT251Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC51H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Tropical Biodiversity Field Course	Tropical Biodiversity Field Course
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A course with preparatory lectures at UTSC and 1 week at a tropical field station. Ecological and evolutionary aspects of tropical biodiversity will be explored. Students must contact the instructor by September to enrol in this course.	A course with preparatory lectures at UTSC and 1 week at a tropical field station. Ecological and evolutionary aspects of tropical biodiversity will be explored. Students must contact the instructor by September to enrol in this course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB50H3 , BIOB51H3 , BIOB52H3 & permission of instructor. Note: Interested students should contact the instructor 4 months before the start of the course, and must be able to place a deposit towards the cost of airfare and accommodation.	BIOB50H3 , BIOB51H3 , BIOB52H3 & permission of instructor. Note: Interested students should contact the instructor 4 months before the start of the course, and must be able to place a deposit towards the cost of airfare and accommodation.
Corequisite		
Exclusion	(BGYC51H3),(BGYC53H3)	
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC52H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Ecology Field Course	Ecology Field Course
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Opportunity to experience hands-on learning through informal natural history walks, group projects, research projects in a small-class setting. The course covers basic principles and selected techniques of field ecology. The study of a variety of topics in population and community ecology, plant-animal interactions. Mandatory: occasional weekend field trips.	Opportunity to experience hands-on learning through informal natural history walks, group projects, research projects in a small-class setting. The course covers basic principles and selected techniques of field ecology. The study of a variety of topics in population and community ecology, plant-animal interactions. Mandatory: occasional weekend field trips.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite	BIOB50H3 & BIOB51H3	BIOB50H3 & BIOB51H3
Exclusion	EEB305H, (BGYC52H3), (BIO305H)	EEB305H, (BIO305H)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC54H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Behaviour	Animal Behaviour
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Survey of the study of animal behaviour, emphasis on understanding behavioural patterns in the context of evolutionary theory. Topics include sexual selection, parental care, social behaviour, conflict and hypothesis testing in behavioural research.	Survey of the study of animal behaviour, emphasis on understanding behavioural patterns in the context of evolutionary theory. Topics include sexual selection, parental care, social behaviour, conflict and hypothesis testing in behavioural research.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOB50H3 & BIOB51H3	BIOB50H3 & BIOB51H3
Corequisite		
Exclusion	EEB322H, (BGYC54H3), (ZOO322H)	EEB322H, (ZOO322H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC58H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Biological Consequences of Global Change	Biological Consequences of Global Change
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and tutorial course that addresses the key environmental factor that will dominate the 21st Century and life on the planet: Global Climate Change. The course will examine the factors that influence climate, from the formation of the earth to the present time, how human activities are driving current and future change, and how organisms, populations, and ecosystems are and will respond to this change. Finally, it will cover human responses and policies that can permit an adaptive response to this change.	A lecture and tutorial course that addresses the key environmental factor that will dominate the 21st Century and life on the planet: Global Climate Change. The course will examine the factors that influence climate, from the formation of the earth to the present time, how human activities are driving current and future change, and how organisms, populations, and ecosystems are and will respond to this change. Finally, it will cover human responses and policies that can permit an adaptive response to this change.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOB50H3 & BIOB51H3	BIOB50H3 & BIOB51H3
Corequisite		
Exclusion	EEB428H, GGR314H, (BGYC58H3), (BIO428H)	EEB428H, GGR314H, (BIO428H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOC59H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Advanced Population Ecology	Advanced Population Ecology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The study of the interactions that determine the distribution and abundance of organisms on the earth. The topics will include an understanding of organism abundance and the factors that act here: population parameters, demographic techniques, population growth, species interactions (competition, predation, herbivory, disease), and population regulation. It will include an understanding of organism distribution and the factors that act here: dispersal, habitat selection, species interactions, and physical factors.	The study of the interactions that determine the distribution and abundance of organisms on the earth. The topics will include an understanding of organism abundance and the factors that act here: population parameters, demographic techniques, population growth, species interactions (competition, predation, herbivory, disease), and population regulation. It will include an understanding of organism distribution and the factors that act here: dispersal, habitat selection, species interactions, and physical factors.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOB50H3	BIOB50H3
Corequisite		
Exclusion	EEB319H, (BGYC59H3), (BIO319H)	EEB319H, (BIO319H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOC61H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Community Ecology and Environmental Biology	Community Ecology and Environmental Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of the theory and methodology of community analysis, with an emphasis on the factors regulating the development of ecosystems. The application of ecological theory to environmental problems is emphasized. Topics include: succession, primary productivity, nutrient supply, predation, competition, trophic dynamics, stability and disturbance, and effects of global change.	An examination of the theory and methodology of community analysis, with an emphasis on the factors regulating the development of ecosystems. The application of ecological theory to environmental problems is emphasized. Topics include: succession, primary productivity, nutrient supply, predation, competition, trophic dynamics, stability and disturbance, and effects of global change.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOB50H3	BIOB50H3
Corequisite		
Exclusion	EEB321H, (BIO321H), (BGYC61H3)	EEB321H, (BIO321H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC62H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Role of Zoos in Conservation	Role of Zoos in Conservation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This lecture and tutorial course explores strategic and operational aspects of zoos in conservation. Emphasis is on contemporary issues, including balance between animal welfare and species conservation; nutrition, health and behavioural enrichment for captive animals; <i>in situ</i> conservation by zoos; captive breeding and species reintroductions; and public outreach/education.	This lecture and tutorial course explores strategic and operational aspects of zoos in conservation. Emphasis is on contemporary issues, including balance between animal welfare and species conservation; nutrition, health and behavioural enrichment for captive animals; <i>in situ</i> conservation by zoos; captive breeding and species reintroductions; and public outreach/education.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOB50H3 & BIOB51H3	BIOB50H3 & BIOB51H3
Corequisite		
Exclusion	(BGYC62H3)	
Recommended Preparation		
Enrolment Limits	50	50
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC63H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Conservation Biology	Conservation Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and tutorial course offering an introduction to the scientific foundation and practice of conservation biology. It reviews ecological and genetic concepts constituting the basis for conservation including patterns and causes of global biodiversity, the intrinsic and extrinsic value of biodiversity, the main causes of the worldwide decline of biodiversity and the approaches to save it.	A lecture and tutorial course offering an introduction to the scientific foundation and practice of conservation biology. It reviews ecological and genetic concepts constituting the basis for conservation including patterns and causes of global biodiversity, the intrinsic and extrinsic value of biodiversity, the main causes of the worldwide decline of biodiversity and the approaches to save it.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOB50H3 & BIOB51H3	BIOB50H3 & BIOB51H3
Corequisite		
Exclusion	EEB365H, (BGYC63H3), (BIO365H)	EEB365H, (BIO365H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC65H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Environmental Toxicology	Environmental Toxicology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the scientific study of the effects of toxic chemicals on biological organisms. Standard methods of assessing toxicant effects on individuals, populations, and communities are discussed. Special emphasis is placed on the chemistry of major toxicant classes, and on how toxicants are processed by the human body.	An introduction to the scientific study of the effects of toxic chemicals on biological organisms. Standard methods of assessing toxicant effects on individuals, populations, and communities are discussed. Special emphasis is placed on the chemistry of major toxicant classes, and on how toxicants are processed by the human body.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB50H3 & CHMA10H3 & CHMA11H3	BIOB50H3 & CHMA10H3 & CHMA11H3
Corequisite		
Exclusion	(BGYC65H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOD08H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Theoretical Neuroscience	Theoretical Neuroscience
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, liquid state-machines and Bayesian optimality. Same as NROD08H3	A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures , liquid state-machines and Bayesian optimality. Same as NROD08H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[NROC34H3] or [NROC64H3] or [NROC69H3] and [MATA30H3] or [MATA31H3] and [PSYB07H3] or [STAB22H3]	[NROC34H3] or [NROC64H3] or [NROC69H3] and [MATA29H3] or [MATA31H3] and [PSYB07H3] or [STAB22H3]
Corequisite		
Exclusion	NROD08H3	NROD08H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: BIOD17H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Seminars in Cellular Microbiology	Seminars in Cellular Microbiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An overview of the most significant advances in cellular microbiology. Relevant scientific literature will be presented and discussed by the students in class and assignments. The curriculum will include cellular mechanisms of bacterial pathogenesis, invasion and intracellular survival of bacteria, and recognition and elimination of pathogenic bacteria by cells.	An overview of the most significant advances in cellular microbiology. Relevant scientific literature will be presented and discussed by the students in class and assignments. The curriculum will include cellular mechanisms of bacterial pathogenesis, invasion and intracellular survival of bacteria, and recognition and elimination of pathogenic bacteria by cells.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOC17H3	BIOC17H3
Corequisite		
Exclusion	(BGYD17H3)	
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours Available Online	No	No

Course: BIOD21H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Advanced Molecular Biology Laboratory	Advanced Molecular Biology Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Applications of molecular technology continue to revolutionize our understanding of all areas of life sciences from biotechnology to human disease. This intensive laboratory, lecture / tutorial course provides students with essential information and practical experience in recombinant DNA technology, molecular biology and bio-informatics.	Applications of molecular technology continue to revolutionize our understanding of all areas of life sciences from biotechnology to human disease. This intensive laboratory, lecture / tutorial course provides students with essential information and practical experience in recombinant DNA technology, molecular biology and bio-informatics.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	<u>BIOB12H3</u> & <u>BIOC15H3</u> & <u>BIOC17H3</u> or <u>IMCB01H3</u> & <u>IMCB02H3</u> (for Applied Microbiology students only)]	<u>BIOB12H3</u> and <u>BIOC15H3</u> and <u>BIOC17H3</u>
Corequisite	<u>BIOC12H3</u> (Note: Although listed as a corequisite, it is recommended that <u>BIOC12H3</u> be taken in advance of <u>BIOD21H3</u> .)	<u>BIOC12H3</u> (Note: Although listed as a corequisite, it is recommended that <u>BIOC12H3</u> be taken in advance of <u>BIOD21H3</u> .)
Exclusion	<u>BGYD21H3</u>	
Recommended Preparation		
Enrolment Limits	48 <u>*Priority will be given to students enrolled in the specialist programs in Cell and Molecular Biology (Co-op and non-Co-op). Additional students will be admitted only if space permits.</u>	48
Note		<u>*Priority will be given to students enrolled in the Specialist programs in Molecular Biology and Biotechnology (Co-op and non-Co-op). Additional students will be admitted only if</u>

space permits.

Instructor

Hours

Available

No

Online

No

Course: BIOD22H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Molecular Biology of the Stress Response	Molecular Biology of the Stress Response
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is organized around a central theme, namely the expression of heat shock (stress) genes encoding proteins important in cellular repair/protective mechanisms. Topics include heat shock transcription factors, heat shock proteins as 'protein repair agents' that correct protein misfolding, and diseases triggered by protein misfolding such as neurodegenerative disorders.	This course is organized around a central theme, namely the expression of heat shock (stress) genes encoding proteins important in cellular repair/protective mechanisms. Topics include heat shock transcription factors, heat shock proteins as 'protein repair agents' that correct protein misfolding, and diseases triggered by protein misfolding such as neurodegenerative disorders.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC15H3	BIOC15H3
Corequisite		
Exclusion	(BGYD22H3)	
Recommended Preparation		
Enrolment Limits	24	24
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD23H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Special Topics in Cell Biology	Special Topics in Cell Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture/seminar/discussion class on contemporary topics in Cell Biology. Students will explore the primary literature becoming familiar with experimental design and methodologies used to decipher cell biology phenomena. Student seminars will follow a series of lectures and journal club discussions.	A lecture/seminar/discussion class on contemporary topics in Cell Biology. Students will explore the primary literature becoming familiar with experimental design and methodologies used to decipher cell biology phenomena. Student seminars will follow a series of lectures and journal club discussions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC12H3	BIOC12H3
Corequisite		
Exclusion	(BGYD23H3)	
Recommended Preparation		
Enrolment Limits	24	24
Note	*Priority will be given to students enrolled in the specialist programs in Cell and Molecular Biology (Co-op and non-Co-op). Additional students will be admitted as space permits.	
Instructor Hours Available Online	No	No

Course: BIOD25H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Genomics	Genomics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A course considering the principles of genome organization and the utilization of genomic approaches to studying a wide range of problems in biology. Topics to be presented will include innovations in instrumentation and automation, a survey of genome projects, genomic variation, functional genomics, transcription profiling (microarrays), database mining and extensions to human and animal health and biotechnology.	A course considering the principles of genome organization and the utilization of genomic approaches to studying a wide range of problems in biology. Topics to be presented will include innovations in instrumentation and automation, a survey of genome projects, genomic variation, functional genomics, transcription profiling (microarrays), database mining and extensions to human and animal health and biotechnology.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC15H3	BIOC15H3
Corequisite		
Exclusion	(BGYD25H3)	
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD27H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Molecular Endocrinology	Molecular Endocrinology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture/seminar/discussion class on contemporary topics in endocrinology. The course provides a basic knowledge of endocrine systems encompassing hormone biosynthesis, metabolism, and physiologic actions. Signal transduction from growth factors and their receptors will be emphasized. Specific topics and advances in hormone and growth factor research will be examined.	A lecture/seminar/discussion class on contemporary topics in endocrinology. The course provides a basic knowledge of endocrine systems encompassing hormone biosynthesis, metabolism, and physiologic actions. Signal transduction from growth factors and their receptors will be emphasized. Specific topics and advances in hormone and growth factor research will be examined.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	(BIOB30H3) or BIOB34H3 or BIOC32H3	(BIOB30H3) or BIOB34H3 or BIOC32H3
Corequisite		
Exclusion	(BGYD27H3)	
Recommended Preparation	BIOC33H3 or BIOC34H3	BIOC33H3 or BIOC34H3
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD33H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Comparative Animal Physiology	Comparative Animal Physiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will focus on the comparative aspects of animal physiology and address how various physiological systems are specialised to meet many of the environmental challenges encountered by terrestrial and aquatic environments. Topics include breathing, cardiovascular physiology, nutrition/feeding, energetics, thermal regulation, hibernation and ionic/osmotic regulation.	This course will examine how various physiological systems and anatomical features are specialised to meet the environmental challenges encountered by terrestrial and aquatic animals. Topics include respiratory systems and breathing, hearts and cardiovascular systems, cardiorespiratory control, animal energetics, metabolic rate, thermoregulation, defenses against extreme temperatures, hibernation and osmotic/ionic/volume regulation.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC33H3 or BIOC34H3	BIOC33H3 or BIOC34H3
Corequisite		
Exclusion	(BGYD33H3)	
Recommended Preparation		
Enrolment Limits		50
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD37H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Biology of Plant Stress	Biology of Plant Stress
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines resistance mechanisms (anatomical, cellular, biochemical, molecular) allowing plants to avoid or tolerate diverse abiotic and biotic stresses. Topics include: pathogen defence; responses to temperature, light, water and nutrient availability, salinity, and oxygen deficit; stress perception and signal transduction; methods to study stress responses; and strategies to improve stress resistance.	This course examines resistance mechanisms (anatomical, cellular, biochemical, molecular) allowing plants to avoid or tolerate diverse abiotic and biotic stresses. Topics include: pathogen defence; responses to temperature, light, water and nutrient availability, salinity, and oxygen deficit; stress perception and signal transduction; methods to study stress responses; and strategies to improve stress resistance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]] and [BIOC40H3 or (BIOB31H3)]	[[BIOB10H3 and BIOB11H3] or BIOB10Y3]] and [BIOC40H3 or (BIOB31H3)]
Corequisite		
Exclusion	(BGYD37H3)	
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD43H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Movement and Exercise	Animal Movement and Exercise
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lecture and seminar/discussion course covering integrative human and comparative animal exercise physiology. Topics will include muscle physiology, neurophysiology, metabolism, energetics, thermoregulation and biomechanics. These topics will be considered within evolutionary and ecological contexts. Students will be expected to give a brief oral presentation on recently published primary research involving exercise physiology.	A lecture and seminar/discussion course covering integrative comparative animal locomotion and exercise physiology. Topics will include muscle physiology, neurophysiology, metabolism, energetics, thermoregulation and biomechanics. These topics will be considered within evolutionary and ecological contexts. Students will be expected to give a brief oral presentation on recently published basic research involving animal locomotion and/or exercise physiology.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOC33H3 or BIOC34H3	BIOC33H3 or BIOC34H3
Corequisite		
Exclusion	HMB472H	HMB472H
Recommended Preparation	Completion of an A-level Physics course.	Completion of an A-level Physics course.
Enrolment Limits	50	50
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD45H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Animal Communication	Animal Communication
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Theoretical and biological aspects of communication in non-human animals; communication behaviour; decision-making and signal design; evolution of communication.	Theoretical and biological aspects of communication in non-human animals; communication behaviour; decision-making and signal design; evolution of communication.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[(BIOB30H3) or BIOB34H3] & BIOB50H3 & BIOB51H3 & BIOC54H3	[(BIOB30H3) or BIOB34H3] & BIOB50H3 & BIOB51H3 & BIOC54H3
Corequisite		
Exclusion	(BGYD45H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: BIOD48H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Ornithology and Herpetology	Ornithology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An overview of the evolution, ecology, behaviour, and conservation of amphibians, reptiles, and birds. Field projects and laboratories will emphasize identification of species in Ontario.	An overview of the evolution, ecology, behaviour, and conservation of birds. Field projects and laboratories will emphasize identification of species in Ontario.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB50H3 , BIOB51H3 & one of the following: BIOC50H3 ; BIOC54H3 or BIOC61H3	BIOB50H3 , BIOB51H3 & one of the following: BIOC50H3 ; BIOC54H3 or BIOC61H3
Corequisite		
Exclusion	EEB386H, EEB384H	EEB386H, EEB384H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: BIOD52H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Special Topics in Biodiversity and Systematics	Special Topics in Biodiversity and Systematics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A seminar exploration of current topics in biodiversity and systematics, including the molecular genetic, organismal, and community levels. Topics may include DNA barcoding, homology and developmental genetics, adaptive radiations, and morphological v.s. molecular systematics. The course is intended to develop ability in critical thinking and interpretation of the primary literature. Coursework will involve class presentations, discussions, and written analyses.	A seminar exploration of current topics in biodiversity and systematics, including the molecular genetic, organismal, and community levels. Topics may include DNA barcoding, homology and developmental genetics, adaptive radiations, and morphological v.s. molecular systematics. The course is intended to develop ability in critical thinking and interpretation of the primary literature. Coursework will involve class presentations, discussions, and written analyses.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC50H3	BIOC50H3
Corequisite		
Exclusion	(BGYD52H3)	
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours Available Online	No	No

Course: BIOD53H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Special Topics in Behavioural Ecology	Special Topics in Behavioural Ecology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration into current topics in the field of behavioural ecology, the study of the evolutionary and ecological influences on animal behaviour. Topics may include sexual selection and conflict, social behaviour, communication, and behavioural mechanisms. Emphasis will be on current research and the quantitative and qualitative reasoning underlying behavioural ecological theory.	An exploration into current topics in the field of behavioural ecology, the study of the evolutionary and ecological influences on animal behaviour. Topics may include sexual selection and conflict, social behaviour, communication, and behavioural mechanisms. Emphasis will be on current research and the quantitative and qualitative reasoning underlying behavioural ecological theory.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC54H3	BIOC54H3
Corequisite		
Exclusion	EEB496Y, (BGYD53H3), (BIO496Y)	EEB496Y, (BIO496Y)
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD54H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Applied Conservation Biology	Applied Conservation Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Canada has a complex conservation landscape. Through lectures and interactive discussions with leading Canadian conservation practitioners, this course will examine how conservation theory is put into practice in Canada from our international obligations to federal and provincial legislation and policies, and the role of environmental non-government organizations.	Canada has a complex conservation landscape. Through lectures and interactive discussions with leading Canadian conservation practitioners, this course will examine how conservation theory is put into practice in Canada from our international obligations to federal and provincial legislation and policies.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC62H3 or BIOC63H3	BIOC62H3 or BIOC63H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD60H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Spatial Ecology	Spatial Ecology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The study of how space and scale influence ecological patterns and species coexistence. The course will cover three main topics: 1) spatial dynamics, such as spatial spread and dispersal models; 2) species coexistence with metapopulation/metacommunity, neutral and lottery models; and 3) spatial analysis of ecological communities. Basic concepts will be applied to ecological problems such as: species invasions, reserve design and understanding threats to island biodiversity. Priority will be given to students enrolled in the specialist program in Biodiversity, Ecology and Evolution.	The study of how space and scale influence ecological patterns and species coexistence. The course will cover three main topics: 1) spatial dynamics, such as spatial spread and dispersal models; 2) species coexistence with metapopulation/metacommunity, neutral and lottery models; and 3) spatial analysis of ecological communities. Basic concepts will be applied to ecological problems such as: species invasions, reserve design and understanding threats to island biodiversity. Priority will be given to students enrolled in the specialist program in Biodiversity, Ecology and Evolution.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	BIOB50H3 & STAB22H3 & BIOC59H3 or BIOC61H3	BIOB50H3 & STAB22H3 & BIOC59H3 or BIOC61H3
Corequisite		
Exclusion	(BGYD60H3)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		

Hours

Available

Online

No

No

Course: BIOD65H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Pathologies of the Nervous System	Pathologies of the Nervous System
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An intensive examination of selected pathologies affecting the nervous system such as Alzheimer's and Parkinson's disease, multiple sclerosis, and stroke. These pathologies will be examined from an integrative perspective encompassing the pathogeneses, resulting symptoms, and current therapeutic approaches. This course requires critical examination of research articles.	An intensive examination of selected pathologies affecting the nervous system such as Alzheimer's and Parkinson's disease, multiple sclerosis, and stroke. These pathologies will be examined from an integrative perspective encompassing the pathogeneses, resulting symptoms, and current therapeutic approaches. This course requires critical examination of research articles.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[BIOB11H3 or BIOB10Y3] & [one of NROC61H3 or NROC64H3 or NROC69H3]	[BIOB11H3 or BIOB10Y3] & [one of NROC61H3 or NROC64H3 or NROC69H3]
Corequisite		
Exclusion	(BGYD65H3) , (NROD65H3)	(NROD65H3)
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD67H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Inter-University Biology Field Course	Inter-University Biology Field Course
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Field courses offered by the Ontario Universities Program in Field Biology (OUPFB) in a variety of habitats and countries, usually during the summer. OUPFB modules (courses) are posted online in January, and students must apply by the indicated deadline.	Field courses offered by the Ontario Universities Program in Field Biology (OUPFB) in a variety of habitats and countries, usually during the summer. OUPFB modules (courses) are posted online in January, and students must apply by the indicated deadline.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	Varies by module (Permission of course co-ordinator required)	Varies by module (Permission of course co-ordinator required)
Corequisite		
Exclusion	(BIOC67H3), (BGYC67H3)	(BIOC67H3)
Recommended Preparation		
Enrolment Limits		
Note	Additional information is provided on the Department of Biological Sciences website http://www.utoronto.ca/biosci/resources-current-students and on the OUPFB website http://www.oupfb.ca/index.html	Additional information is provided on the Department of Biological Sciences website http://www.utoronto.ca/biosci/resources-current-students and on the OUPFB website http://www.oupfb.ca/index.html
Instructor Hours Available Online	No	No

Course: BIOD95H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Supervised Study in Biology	Supervised Study in Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course is designed to permit intensive examination of the primary literature of a select topic. Frequent consultation with the supervisor is necessary and extensive library research is required. The project will culminate in a written report.</p> <p>Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, then returned to SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 5 sessions of group instruction will form part of the coursework.</p>	<p>This course is designed to permit intensive examination of the primary literature of a select topic. Frequent consultation with the supervisor is necessary and extensive library research is required. The project will culminate in a written report.</p> <p>Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, then returned to SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 5 sessions of group instruction will form part of the coursework.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Satisfactory completion of 12.5 full credits, of which at least four must be Biology B- or C-level courses. Students must have permission of the instructor. In order to be eligible for BIOD95H3 , with the same instructor as for BIOD98Y3 or BIOD99Y3 , the student and instructor must provide a plan that goes beyond the work of those courses.	Satisfactory completion of 12.5 full credits, of which at least four must be Biology B- or C-level courses. Students must have permission of the instructor. In order to be eligible for BIOD95H3 , with the same instructor as for BIOD98Y3 or BIOD99Y3 , the student and instructor must provide a plan that goes beyond the work of those courses.
Corequisite		
Exclusion	(BGYD03H3), (BGYD95H3)	

**Recommended
Preparation
Enrolment
Limits
Note
Instructor
Hours
Available
Online**

No

No

Course: BIOD98Y3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Directed Research in Biology	Directed Research in Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>A course designed to permit laboratory or field research or intensive examination of a selected topic in biology. Supervision of the work is arranged by mutual agreement between student and instructor.</p> <p>Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, and returned SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 10 sessions of group instruction will form part of the coursework.</p>	<p>A course designed to permit laboratory or field research or intensive examination of a selected topic in biology. Supervision of the work is arranged by mutual agreement between student and instructor.</p> <p>Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, and returned SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 10 sessions of group instruction will form part of the coursework.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.	Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.
Corequisite		
Exclusion	CSB498Y, EEB498Y, (BGYD01Y3), (BGYD98Y3), (BOT460Y), (ZOO498Y)	CSB498Y, EEB498Y, (BOT460Y), (ZOO498Y)
Recommended Preparation		
Enrolment Limits		
Note		

**Instructor
Hours
Available
Online**

No

No

Course: BIOD99Y3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2016 - Biological Sciences	2016 - Biological Sciences
Calendar Title	Directed Research in Biology	Directed Research in Biology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Identical to BIOD98Y3 but intended as a second research experience. In order to be eligible for BIOD99Y3, with the same instructor, the student and the instructor will have to provide a plan of study that goes beyond the work of BIOD98Y3.	Identical to BIOD98Y3 but intended as a second research experience. In order to be eligible for BIOD99Y3, with the same instructor, the student and the instructor will have to provide a plan of study that goes beyond the work of BIOD98Y3.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.	Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.
Corequisite		
Exclusion	CSB498Y, EEB498Y, (BGYD02Y3), (BGYD99Y3), (BOT460Y), (ZOO498Y)	CSB498Y, EEB498Y, (BOT460Y), (ZOO498Y)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CHMA10H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Introductory Chemistry I: Structure and Bonding	Introductory Chemistry I: Structure and Bonding
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course will introduce the study of chemical transformations of matter, from a macroscopic and microscopic perspective. It starts with a quantitative description of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds with a particular emphasis on organic and biological molecules.</p> <p>This course includes a three hour laboratory every other week which alternates with a one hour mandatory tutorial.</p>	<p>This course will introduce the study of chemical transformations of matter, from a macroscopic and microscopic perspective. It starts with a quantitative description of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds with a particular emphasis on organic and biological molecules. This course includes a three hour laboratory every other week.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Grade 12 Chemistry and [Grade 12 Advanced Functions or Calculus]	Grade 12 Chemistry and [Grade 12 Advanced Functions or Calculus]
Corequisite		
Exclusion	CHM120H, CHM140Y, CHM151Y	CHM120H, CHM140Y, CHM151Y
Recommended Preparation	MATA30H3	Grade 12 Chemistry and [Grade 12 Advanced Functions or Grade 12 Calculus]
Enrolment Limits		
Note	MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.	MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.
Instructor		

Hours

Available

Online

No

No

Course: CHMA11H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Introductory Chemistry II: Reactions and Mechanisms	Introductory Chemistry II: Reactions and Mechanisms
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	In this course reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Acid/base and solubility equilibria will be discussed along with topics in electrochemistry. This course includes a three hour laboratory every other week which alternates with a one hour mandatory tutorial.	In this course reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Acid/base and solubility equilibria will be discussed along with topics in electrochemistry. This course includes a three hour laboratory every other week.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CHMA10H3	CHMA10H3
Corequisite		
Exclusion	CHM139H, CHM140Y, CHM151Y	CHM139H, CHM140Y, CHM151Y
Recommended Preparation	MATA30H3 and [MATA35H3 or MATA36H3].	MATA30H3 and [MATA35H3 or MATA36H3].
Enrolment Limits		
Note	MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.	MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.
Instructor Hours Available Online	No	No

Course: CHMB16H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Techniques in Analytical Chemistry	Techniques in Analytical Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the principles and methods of classical analysis and the provision of practical experience in analytical laboratory techniques. The course deals primarily with quantitative chemical analysis. Classical methods of volumetric analysis, sampling techniques, statistical handling of data are studied, as well as a brief introduction to spectro-chemical methods. This course includes a four hour laboratory every week.	An introduction to the principles and methods of classical analysis and the provision of practical experience in analytical laboratory techniques. The course deals primarily with quantitative chemical analysis. Classical methods of volumetric analysis, sampling techniques, statistical handling of data are studied, as well as a brief introduction to spectro-chemical methods. This course includes a four hour laboratory every week.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	CHMA10H3 and CHMA11H3 and MATA30H3 and [MATA35H3 or MATA36H3]	CHMA10H3 and CHMA11H3 and MATA30H3 and [MATA35H3 or MATA36H3]
Corequisite		
Exclusion	CHM217H	CHM217H
Recommended Preparation	CHMB31H3	STAB22H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: CHMB31H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Introduction to Inorganic Chemistry	Introduction to Inorganic Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Fundamental periodic trends and descriptive chemistry of the main group elements are covered. The topics include structures, bonding and reactivity; solid state structures and energetics; and selected chemistry of Group 1, 2, and 13-18. The course has an accompanying practical (laboratory) component taking place every second week.	Fundamental periodic trends and descriptive chemistry of the main group elements are covered. The topics include structures, bonding and reactivity; solid state structures and energetics; and selected chemistry of Group 1, 2, and 13-18. The course has an accompanying practical (laboratory) component taking place every second week.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	CHMA10H3 and CHMA11H3	CHMA10H3 and CHMA11H3
Corequisite		
Exclusion		CHM238Y, CHM231H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: CHMC20H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Intermediate Physical Chemistry	Intermediate Physical Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Basic statistical mechanics and applications to thermochemistry and kinetics; intermolecular interactions; concepts in reaction dynamics.	Basic statistical mechanics and applications to thermochemistry and kinetics; intermolecular interactions; concepts in reaction dynamics.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CHMB20H3 & CHMB21H3 & MATB41H3 & PHYA21H3	CHMB23H3 & CHMB21H3 & MATB41H3 & PHYA21H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: CHMC21H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Topics in Biophysical Chemistry	Topics in Biophysical Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Advanced topics in Physical Chemistry with emphasis on biochemical systems. Spectroscopic methods for (bio) molecular structure determination, including IR, NMR, UV/VIS; colloid chemistry; polymers and bio-polymers, bonding structure and statistical mechanics; physical chemistry of membranes, active transport and diffusion; oscillatory (bio)chemical reactions.	Advanced topics in Physical Chemistry with emphasis on biochemical systems. Spectroscopic methods for (bio) molecular structure determination, including IR, NMR, UV/VIS; colloid chemistry; polymers and bio-polymers, bonding structure and statistical mechanics; physical chemistry of membranes, active transport and diffusion; oscillatory (bio)chemical reactions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CHMB20H3 & CHMB21H3 & MATB41H3 & PHYA21H3	CHMB20H3 or CHMB23H3 & CHMB21H3 & MATB41H3 & PHYA21H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CHMC31Y3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Intermediate Inorganic Chemistry	Intermediate Inorganic Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>A more detailed discussion (than in CHMB31H3) of the structure, bonding, spectroscopy and reactivity of main group, transition metal and organo-metallic compounds. Special topics may include inorganic solids and materials, biologically and environmentally important inorganic compounds, and catalysis. The laboratory will introduce a variety of synthetic techniques, with characterization of products by both classical and instrumental methods.</p> <p>This laboratory is six hours in duration and occurs every week.</p>	<p>A detailed discussion of the structure, bonding, spectroscopy and reactivity of transition metal compounds. After an overview of descriptive chemistry, the focus is on coordination and organometallic chemistry, with an introduction to catalysis and biocoordination chemistry. The laboratory focuses on intermediate and advanced inorganic syntheses, and classical and instrumental characterization methods.</p> <p>This laboratory is six hours in duration and occurs every week.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	CHMB16H3 and CHMB20H3 and CHMB31H3 and CHMB42H3	CHMB16H3 and CHMB20H3 or CHMB23H3 and CHMB31H3 and CHMB42H3
Corequisite		
Exclusion		CHM338H and CHM331H
Recommended Preparation		
Enrolment Limits	20	20
Note	Priority will be given to students in the Specialist programs in Biological Chemistry and Chemistry.	Priority will be given to students in the Specialist programs in Biological Chemistry and Chemistry.

**Instructor
Hours
Available
Online**

No

No

Course: CHMD69H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Bioinorganic Chemistry	Bioinorganic Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course will explore the inorganic chemistry behind the requirement of biological cells for metals. The course will begin with the principles of coordination chemistry and a survey of the abilities of various functional groups within proteins and nucleic acids to form coordination complexes with metal ions. Their reactivity will be discussed in the context of the reaction mechanisms of specific metalloenzymes. Medically-relevant topics such as mechanisms by which organisms obtain required metal ions from their environment, the toxicity of metals and use of platinum containing compounds in treating cancer will also be covered.</p>	<p>This course will explore the role of metals cations in living systems. After a survey of biologically relevant ligands (such as amino and nucleic acids) the focus shifts to metal uptake and function. The course also provides a brief introduction to medicinal inorganic chemistry.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOC12H3 & BIOC13H3 & CHMC31Y3	BIOC12H3 & BIOC13H3 or CHMB62H3 & CHMC31Y3
Corequisite		
Exclusion	CHM333H, CHM437H	CHM333H, CHM437H
Recommended Preparation		
Enrolment Limits		

Note

Students are cautioned that **CHMD71H3** is not offered in the same academic year as **CHMD69H3**.

Instructor

Hours

Available

No

Online

No

Course: CHMD71H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Pharmaceutical Chemistry	Pharmaceutical Chemistry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course focuses on the important concepts in the design and synthesis of drugs. The course will begin with the principles of pharmacology, drug metabolism and toxicology. Drug design and structure-activity relationships including the synthetic and pharmacological concepts will be discussed. Case studies of drugs will be studied in detail.	The course focuses on the important concepts in the design and synthesis of drugs. The course may include the principles of pharmacology, drug metabolism and toxicology. Strategies for generating valuable active compounds and structure/activity relationships involved in selective transformations of available building blocks into diversely functionalized derivatives will be discussed. The course provides an overview of reactions used at different stages of the drug development process, using representative examples from the literature and case studies of drugs where applicable.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CHMC41H3 & CHMC42H3 & CHMC47H3	CHMC41H3 or CHMC42H3 & CHMC47H3
Corequisite		
Exclusion	CHM440H	CHM440H
Recommended Preparation		BIOC12H3 and BIOC13H3 or CHMB62H3
Enrolment Limits		
Note		Students are cautioned that CHMD69H3 is not offered in the same academic year as CHMD71H3 .
Instructor		

Hours

Available

Online

No

No

Course: CHMD90Y3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Directed Research	Directed Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Course Coordinator: K. Kerman (416) 287-7249 Email: kkerman@utsc.utoronto.ca</p> <p>This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 260 hours of work are expected in CHMD90Y3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.</p> <p>Please see the note below on registration in CHMD90Y3.</p>	<p>Course Coordinators: Artur Izmaylov (416 208-2951) aizmaylov@utsc.utoronto.ca and Frank Wania (416 287-7225) frank.wania@utoronto.ca</p> <p>This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 260 hours of work are expected in CHMD90Y3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.</p> <p>Please see the note below on registration in CHMD90Y3.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Permission of the course coordinator.	Permission of the course coordinator.
Corequisite		
Exclusion	CHMD91H3 , CHMD92H3	CHMD91H3 , CHMD92H3
Recommended Preparation		

Enrolment Limits

Note

Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April. Applications will consist of: 1) A letter of intent indicating the student's wish to enrol in CHMD90Y3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the requirements below will be admitted to CHMD90Y3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD90Y3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give "permission of instructor" on this form.

Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April. Applications will consist of: 1) A letter of intent indicating the student's wish to enrol in CHMD90Y3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the requirements below will be admitted to CHMD90Y3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD90Y3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give "permission of instructor" on this form.

Instructor Hours Available Online

No

No

Course: CHMD91H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2016 - Chemistry	2016 - Chemistry
Calendar Title	Directed Research	Directed Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Course Coordinator: K. Kerman (416) 287-7249 Email: kkerman@utsc.utoronto.ca</p> <p>This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 130 hours of work are expected in CHMD91H3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.</p> <p>Please see the note below on registration in CHMD91H3.</p>	<p>Course Coordinators: Artur Izmaylov (416) 208-2951 Email: aizmaylov@utsc.utoronto.ca and Frank Wania (416 287-7225) Email: frank.wania@utoronto.ca</p> <p>This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 130 hours of work are expected in CHMD91H3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.</p> <p>Please see the note below on registration in CHMD91H3.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	None	None
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature	Permission of the course coordinator.	Permission of the course coordinator.
Prerequisite		
Corequisite		
Exclusion	CHMD90Y3 , CHMD92H3	CHMD90Y3 , CHMD92H3

**Recommended
Preparation
Enrolment
Limits
Note**

Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April. Applications will consist of: 1) A letter of intent indicating the student's wish to enroll in either CHMD90Y3 or CHMD91H3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the following requirements will be admitted to CHMD91H3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD91H3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give "permission of instructor" on this form.

Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April. Applications will consist of: 1) A letter of intent indicating the student's wish to enroll in either CHMD90Y3 or CHMD91H3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the following requirements will be admitted to CHMD91H3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD91H3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give "permission of instructor" on this form.

**Instructor
Hours
Available
Online**

No

No

Course: CITC15H3 - Compare

Owning Organizations	CIT,GGRSC	CIT,GGRSC
Sections	2016 - City Studies	2016 - City Studies
Calendar Title	Taxing and Spending: Public Finance in Canadian Cities	Taxing and Spending: Public Finance in Canadian Cities
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course examines Canadian local public finance in comparative perspective and discusses the implications of municipal finance for urban public policy, planning, and the provision of municipal services. Topics include local government revenue sources and expenditures, the politics of municipal and intergovernmental fiscal relations, and how public finance influences urban form.	The course examines Canadian local public finance in comparative perspective and discusses the implications of municipal finance for urban public policy, planning, and the provision of municipal services. Topics include local government revenue sources and expenditures, the politics of municipal budgeting and intergovernmental fiscal relations, and how public finance influences urban form.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	At least 1.0 credit at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management or Political Science or Sociology	At least 1.0 credit at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management or Political Science or Sociology
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: CITD05H3 - Compare

Course Code	CITC05H3	CITD05H3
Owning Organizations	CIT,GGRSC	CIT,GGRSC
Sections	2016 - City Studies	2016 - City Studies
Calendar Title	Cities Studies Workshop I	Cities Studies Workshop I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.	City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	8.0 credits including CITB02H3 and 1.0 credit at the B-level in CIT courses	8.0 credits including CITB02H3 and 1.0 credit at the B-level in CIT courses
Corequisite Exclusion		(CITC05H3)
Recommended Preparation		
Enrolment Limits		25
Note	This course is designed for third and fourth year students. Priority will be given to students enrolled in the City Studies Major and Major	This course is designed for students in Years 3 and 4 of their programs. Priority will be given to students enrolled in the Specialist and

Instructor	Co-op programs.	Major/ Major Co-op programs in City Studies.
Hours		
Available	No	No
Online		

Course: CITD06H3 - Compare

Course Code	CITC06H3	CITD06H3
Owning Organizations	CIT,GGRSC	CIT,GGRSC
Sections	2016 - City Studies	2016 - City Studies
Calendar Title	City Studies Workshop II	City Studies Workshop II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.	City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	8.0 credits including [CITB02H3] and 1.0 credit at the B-level in CIT courses]	8.0 credits including [CITB02H3] and 1.0 credit at the B-level in CIT courses]
Corequisite Exclusion		(CITC06H3)
Recommended Preparation		
Enrolment Limits	25	25
Note	This course is designed for third and fourth year students. Priority will be given to students and 4 of their program of study. Priority will be enrolled in the Major/Major Co-op programs in	This course is designed for students in Years 3 and 4 of their program of study. Priority will be given to students enrolled in the Specialist and

	City Studies.	Major/Major Co-op programs in City Studies.
Instructor		
Hours		
Available	No	No
Online		

Course: CSCB07H3 - Compare

Owning Organizations	CSC,MSCSC	CSC,MSCSC
Sections	2016 - Computer Science	2016 - Computer Science
Calendar Title	Software Design	Software Design
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to software design and development concepts, methods, and tools, using a statically-typed object-oriented language such as Java. Topics from: version control, build management, unit testing, refactoring, object oriented design and development, design patterns and advanced IDE usage.	An introduction to software design and development concepts, methods, and tools, using a statically-typed object-oriented language such as Java. Topics from: version control, build management, unit testing, refactoring, object oriented design and development, design patterns and advanced IDE usage.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CSCA48H3	CSCA48H3 and [CGPA 2.5 or enrolment in a CSC Subject POST]
Corequisite		
Exclusion	CSC207H	CSC207H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CSCB63H3 - Compare

Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	2016 - Computer Science	2016 - Computer Science
Calendar Title	Design and Analysis of Data Structures	Design and Analysis of Data Structures
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Design, analysis, implementation and comparison of efficient data structures for common abstract data types. Priority queues: heaps and mergeable heaps. Dictionaries: balanced binary search trees, B-trees, hashing. Amortization: data structures for managing dynamic tables and disjoint sets. Data structures for representing graphs. Graph searches.	Design, analysis, implementation and comparison of efficient data structures for common abstract data types. Priority queues: heaps and mergeable heaps. Dictionaries: balanced binary search trees, B-trees, hashing. Amortization: data structures for managing dynamic tables and disjoint sets. Data structures for representing graphs. Graph searches.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CSCB07H3 & CSCB36H3 & [CGPA 2.5 or enrolment in a CSC Subject POST]	CSCB36H3 & [CGPA 2.5 or enrolment in a CSC Subject POST]
Corequisite		
Exclusion	CSC263H, CSC265H	CSC263H, CSC265H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CSCC10H3 - Compare

Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	2016 - Computer Science	2016 - Computer Science
Calendar Title	Human-Computer Interaction	Human-Computer Interaction
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course will provide an introduction to the field of Human-Computer Interaction (HCI) with emphasis on guidelines, principles, methodologies, and tools and techniques for analyzing, designing and evaluating user interfaces. Subsequent topics include usability assessment of interactive systems, prototyping tools, information search and visualization, mobile devices, social media and social networking, and accessibility factors.	The course will provide an introduction to the field of Human-Computer Interaction (HCI) with emphasis on guidelines, principles, methodologies, and tools and techniques for analyzing, designing and evaluating user interfaces. Subsequent topics include usability assessment of interactive systems, prototyping tools, information search and visualization, mobile devices, social media and social networking, and accessibility factors.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	CSCB07H3 and [CGPA 3.0 or enrolment in a CSC Subject POST]	CSCB07H3 and [CGPA 3.0 or enrolment in a CSC Subject POST]
Corequisite	CCT380H, CSC318H	CCT380H, CSC318H
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: CSCC85H3 - Compare

Owning Organizations	CSC,MSCSC	CSC,MSCSC
Sections	2016 - Computer Science	2016 - Computer Science
Calendar Title	Introduction to Embedded Systems	Introduction to Embedded Systems
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course covers the components and fundamental principles of operation of systems built around micro-processing elements: the architecture, operation, and types of micro-processing components; sensors, actuators, signal acquisition and processing, and basic principles of control theory. Laboratory sessions involving the use of a mobile robotic platform provide hands-on experience.	The course covers the components and fundamental principles of operation of systems built around micro-processing elements: the architecture, operation, and types of micro-processing components; sensors, actuators, signal acquisition and processing, and basic principles of control theory. Laboratory sessions involving the use of a mobile robotic platform provide hands-on experience.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CSCB58H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]	CSCB58H3 and CSCB09H3 and [CGPA 3.0 or enrolment in a CSC Subject POST]
Corequisite		
Exclusion	ECE385H	ECE385H
Recommended Preparation		CSCB07H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CSCD58H3 - Compare

Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	2016 - Computer Science	2016 - Computer Science
Calendar Title	Computer Networks	Computer Networks
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Computer communication network principles and practice. The OSI protocol-layer model; Internet application layer and naming; transport layer and congestion avoidance; network layer and routing; link layer with local area networks, connection-oriented protocols and error detection and recovery; multimedia networking with quality of service and multicasting. Principles in the context of the working-code model implemented in the Internet.	Computer communication network principles and practice. The OSI protocol-layer model; Internet application layer and naming; transport layer and congestion avoidance; network layer and routing; link layer with local area networks, connection-oriented protocols and error detection and recovery; multimedia networking with quality of service and multicasting. Principles in the context of the working-code model implemented in the Internet.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	CSCB58H3 & CSCB63H3 & [STAB52H3 or STAB57H3] & [CGPA 3.0 or enrolment in a CSC Subject POST]	CSCB58H3 & CSCB63H3 & STAB52H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]
Corequisite		
Exclusion	CSC458H	CSC458H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CTLA02H3 - Compare

Owning Organizations	TLE	TLE
Sections	2016 - Teaching and Learning, Centre for	2016 - Teaching and Learning, Centre for
Calendar Title	Exploring Cross -Cultural Perspectives in Academic Contexts	Exploring Inter -Cultural Perspectives in Academic Contexts
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course develops students' language, academic and communication skills through a critical exploration of Canadian culture and academic expectations. Using audio-visual and textual media, students learn through interactive online and in-class discussions. This course aims to foster dynamic academic acculturation for international students and develop their multi-literate engagement in English.	This course develops students' language, academic and communication skills through a critical exploration of Canadian culture and academic expectations. Using audio-visual and textual media, students learn through interactive online and in-class discussions. This course aims to foster dynamic academic acculturation for international students and develop their multi-literate engagement in English.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	No more than 10.0 credits completed. Students are required to take a diagnostic test of their academic English skills to be conducted by the English Language Development Centre in advance of the first day of class.	No more than 10.0 credits completed. Students are required to take a diagnostic test of their academic English skills to be conducted by the English Language Development Centre in advance of the first day of class.
Corequisite		
Exclusion	(HUMA11H3), (LGGA11H3)	(HUMA11H3), (LGGA11H3)
Recommended Preparation		
Enrolment Limits	20	20
Note	The instructor has the authority to exclude students whose level of proficiency is unsuitable for the language learning and	The instructor has the authority to exclude students whose level of proficiency is unsuitable for the language learning and

cultural exploration focus of the course, including those students who meet the prerequisites.

cultural exploration focus of the course, including those students who meet the prerequisites.

**Instructor
Hours
Available
Online**

No

No

Course: CURB01H3 - Compare

Owning Organizations	ACMSC,CUR	ACMSC,CUR
Sections	2016 - Curatorial Studies	2016 - Curatorial Studies
Calendar Title	Introduction to Curating Art	Introduction to Curating Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the theory, ethics and contexts of art museum/gallery curatorial practice. Emphasis on communication through exploring interpretations and considering ethical practice. Students will learn specialized knowledge, resources, references and methodologies and explore professional and academic responsibilities of art-based curatorial work.	An introduction to the theory, ethics and contexts of art museum/gallery curatorial practice. Emphasis on communication through exploring interpretations and considering ethical practice. Students will learn specialized knowledge, resources, references and methodologies and explore professional and academic responsibilities of art-based curatorial work.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Any 2.0 credits at A-level	Any 2.0 credits at A-level
Corequisite		
Exclusion	VPHB72H3 , FAH301H5, FAH310H5	VPHB72H3 , FAH301H5, FAH310H5
Recommended Preparation		
Enrolment Limits	Restricted to students who have completed the A-level courses in the Major or Specialist programs in Art History, Arts Management, Studio Art, or Media Studies.	Restricted to students who have completed the A-level courses in the Major or Specialist programs in Art History, Arts Management, Studio Art, or Media Studies.
Note	Priority will be given to students enrolled in the Minor in Curatorial Studies. Additional students will be admitted as space permits.	Priority will be given to students enrolled in the Minor in Curatorial Studies. Additional students will be admitted as space permits.
Instructor Hours		

**Available
Online**

No

No

Course: CURB02H3 - Compare

Course Code	CURB71H3	CURB02H3
Owning Organizations	VPH,ACMSC	ACMSC,CUR
Sections	2016 - Art History and Visual Culture	2016 - Curatorial Studies
Calendar Title	Exhibiting Art	Exhibiting Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A critical look at ways of exhibiting art, from a variety of international, historical and contemporary perspectives with emphasis on today's displays in public and private institutions, and on beyond-the-gallery installation, performance, and virtual art practices.	A critical look at ways of exhibiting art, from a variety of international, historical and contemporary perspectives with emphasis on today's displays in public and private institutions, and on beyond-the-gallery installation, performance, and virtual art practices.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3	VPHA46H3
Corequisite		
Exclusion		(VPHB71H3), FAH310H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: CURD43H3 - Compare

Owning Organizations	VPH,ACMSC	ACMSC,CUR
Sections	2016 - Art History and Visual Culture	2016 - Curatorial Studies
Calendar Title	Curating Contemporary Art	Curating Contemporary Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Curatorial practice and the responsibilities of the curator, such as the intellectual and practical tasks of producing a contemporary art exhibition, researching Canadian contemporary art and artists, building a permanent collection, administrating a public art competition, and critical writing about works of visual art in their various contexts. Studio and/or gallery visits required.	Curatorial practice and the responsibilities of the curator, such as the intellectual and practical tasks of producing a contemporary art exhibition, researching Canadian contemporary art and artists, building a permanent collection, administrating a public art competition, and critical writing about works of visual art in their various contexts. Studio and/or gallery visits required.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	11.0 credits including VPHB39H3, VPHB71H3 & VPHB72H3	11.0 credits including VPHB39H3, CURB01H3 and CURB02H3
Corequisite		
Exclusion		(VPHD43H3)
Recommended Preparation		
Enrolment Limits	20	
Note		
Instructor Hours		
Available Online	No	No

Course: CURD44H3 - Compare

Owning Organizations	VPH,ACMSC	ACMSC,CUR
Sections	2016 - Art History and Visual Culture	2016 - Curatorial Studies
Calendar Title	Curating Historical Art	Curating Historical Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Time and history bring different factors to our understanding and interpretation of artworks. Students will explore both intellectual and practical factors concerning curating historical art, from conservation, research, and handling issues to importance of provenance, collecting, and display, through workshops, critical writing and discussion, field trips, and guest speakers.	Time and history bring different factors to our understanding and interpretation of artworks. Students will explore both intellectual and practical factors concerning curating historical art, from conservation, research, and handling issues to importance of provenance, collecting, and display, through workshops, critical writing and discussion, field trips, and guest speakers.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	11.0 credits including VPHB39H3 & VPHB71H3 & VPHB72H3	11.0 credits including VPHB39H3, CURB01H3 and CURB02H3
Corequisite		
Exclusion		(VPHD44H3)
Recommended Preparation		
Enrolment Limits	20	
Note		
Instructor Hours		
Available Online	No	No

Course: EESA01H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Introduction to Environmental Science	Introduction to Environmental Science
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The scientific method and its application to natural systems. The physical and biological processes which drive ecosystem functions. Anthropogenic changes in ecosystem functions at local and global scales. Emphasis on the degradation of the atmosphere, soil, water and biological resources caused by human activity. Renewable and non-renewable resource sustainability.	The scientific method and its application to natural systems. The physical and biological processes which drive ecosystem functions. Anthropogenic changes in ecosystem functions at local and global scales. Emphasis on the degradation of the atmosphere, soil, water and biological resources caused by human activity. Renewable and non-renewable resource sustainability. Laboratories will include hands-on field and lab related practical experience.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite		
Exclusion		ENV100Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: EESA06H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Introduction to Planet Earth	Introduction to Planet Earth
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the composition, structure and origin of the Earth and the physical and biological processes that operate in and on it; the history of the Earth as revealed in the rock record. The flows of energy and mass through natural systems, and the impact of human activity on system processes, with particular reference to land use change, soil degradation and atmospheric pollution.	This general interest course explores the composition, structure and origin of the Earth and the tectonic, chemical and biological processes that have evolved over the last 4.5 billion years. It explains how planet "works" as a complex system. It provides a fundamental basis for understanding many of the environmental challenges faced by human societies especially natural hazards, water shortages, and climate change, and the importance of natural resources to our economy.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite		
Exclusion	GGR100Y, GLG110H	GGR100Y, GLG110H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: EESB15H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Earth History	Earth History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Planet Earth is at least 4,400 million years old and a geological record exists for at least the last 3,900 million years in the form of igneous, metamorphic and sedimentary rocks. The changing dynamics of convection deep within the Earth's mantle and associated super-continent assembly and breakup along with meteorite impacts, are now recognized as the major controls on development of the planet's atmosphere, oceans, biology, climate and geo-chemical cycles. This course reviews this long history and the methods and techniques used by geologists to identify ancient environments.	Planet Earth is at least 4,400 million years old and a geological record exists for at least the last 3,900 million years in the form of igneous, metamorphic and sedimentary rocks. The changing dynamics of convection deep within the Earth's mantle and associated super-continent assembly and breakup along with meteorite impacts, are now recognized as the major controls on development of the planet's atmosphere, oceans, biology, climate and geo-chemical cycles. This course reviews this long history and the methods and techniques used by geologists to identify ancient environments.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	EESA01H3 & EESA06H3	EESA01H3 and EESA06H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		Note: Priority will be given to students in Specialist programs in Environmental Geoscience and Environmental Chemistry.
Instructor		

Hours

Available

Online

No

No

Course: EESC16H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Field Methods	Field Camp I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Many environmental problems can only be assessed by collecting geological, hydrogeological, and other environmental data in the field. This course provides students with the necessary skills for fieldwork investigations in a range of environments. The course is held annually either in May or late August. Field projects are carried out either locally, in the GTA, or abroad (Costa Rica) in alternate years.</p>	<p>Many environmental problems can only be assessed by collecting geological and other environmental data in the field. This course will provide students with the necessary skills for fieldwork investigations in a range of environments. The camp is held annually either in May or late August. Locations for the camp include Costa Rica, Rockies, Arizona, and Appalachians.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	Permission of the instructors.	Permission of the instructors.
Corequisite		
Exclusion		
Recommended Preparation	EESB15H3	EESB15H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: EESC18H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	The Great Lakes: An Introduction to Physical Limnology	Limnology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>North America is endowed with eight of the twelve largest lakes in the world. The origin and geological history, cycles of carbon, nitrogen and phosphorus, and structures of ecosystems of the North American Great Lakes will be used as examples of large lacustrine systems. Fundamental concepts of limnology will be related to features found in the Great Lakes. Topics include: lake origins, lake classification, lake temperature structure and heat budgets, seasonal water circulations, productivity, plankton ecology, food-web dynamics, exotic species invasions, eutrophication-related phenomena and water quality/fisheries management. Specific anthropogenic influences will be illustrated using case studies from the local environment, and students will be allowed to pursue their own interests through a series of short seminars.</p>	<p>North America is endowed with eight of the twelve largest lakes in the world. The origin and geological history, cycles of carbon, nitrogen and phosphorus, and structures of ecosystems of the North American Great Lakes will be used as examples of large lacustrine systems. Fundamental concepts of limnology will be related to features found in the Great Lakes. Topics include: lake origins, lake classification, lake temperature structure and heat budgets, seasonal water circulations, productivity, plankton ecology, food-web dynamics, exotic species invasions, eutrophication-related phenomena and water quality/fisheries management. Specific anthropogenic influences will be illustrated using case studies from the local environment, and students will be allowed to pursue their own interests through a series of short seminars.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	EESB03H3	EESB03H3
Corequisite		
Exclusion		
Recommended Preparation	EESB02H3	EESB02H3

**Enrolment
Limits
Note
Instructor
Hours
Available
Online**

No

No

Course: EESC19H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Marine Systems	Oceanography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The world's oceans constitute more than 70% of the earth's surface environments. This course will introduce students to the dynamics of ocean environments, ranging from the deep ocean basins to marginal seas to the coastal ocean. The large-scale water circulation is examined from an observationally based water mass analysis and from a theoretical hydro-dynamical framework. The circulation of marginal seas, the role of tides, waves and other currents are studied in terms of their effects upon the coastal boundary.	The world's oceans constitute more than 70% of the earth's surface environments. This course will introduce students to the dynamics of ocean environments, ranging from the deep ocean basins to marginal seas to the coastal ocean. The large-scale water circulation is examined from an observationally based water mass analysis and from a theoretical hydro-dynamical framework. The circulation of marginal seas, the role of tides, waves and other currents are studied in terms of their effects upon the coastal boundary.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	EESB03H3	EESB03H3
Corequisite		
Exclusion		
Recommended Preparation	EESB02H3	EESB02H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: EESC30H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Microbial Biogeochemistry	Environmental Microbiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the diversity of microorganisms, their adaptations to special habitats, and their role in the ecosystem and geochemical cycling. Other topics include microbial phylogeny, physiological diversity, species interactions and state of the art methods of detection and enumeration.	This course examines the diversity of microorganisms, their adaptations to special habitats, and their critical role in the ecosystems and biogeochemical cycles. The course covers microbial phylogeny, physiological diversity, species interactions and state of the art methods of detection and enumeration.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	CHMA10H3 & CHMA11H3 & BIOB50H3 & BIOB51H3	CHMA10H3 & CHMA11H3 & BIOB50H3 & BIOB51H3
Corequisite		
Exclusion	(BGYC55H3)	(BGYC55H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: EESC31H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Glacial Geology	Glacial Geology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The last 2.5 million years has seen the repeated formation of large continental ice sheets over North America and Europe. The course will review the stratigraphic record of past glacial and interglacial climates, modern day periglacial processes, and the record of pre-Pleistocene glaciations. The course includes a one-day field trip.	The last 2.5 million years has seen the repeated formation of large continental ice sheets over North America and Europe. The course will review the geologic and geomorphologic record of past glacial and interglacial climates, the formation and flow of ice sheets , and modern day cold-climate processes in Canada's north. The course includes a one-day field trip to examine the glacial record of the GTA.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	EESA06H3 and EESB20H3	EESA06H3 and EESB20H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: EESC37H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Structural Geology	Structural Geology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course introduces mechanics of rock deformation. It examines identification, interpretation, and mechanics of faults, folds, and structural features of sedimentary, igneous and metamorphic rocks as well as global, regional and local scale structural geology and tectonics. Lectures are supplemented by lab exercises and demonstrations as well as local field trips.	The course introduces mechanics of rock deformation. It examines identification, interpretation, and mechanics of faults, folds, and structural features of sedimentary, igneous and metamorphic rocks as well as global, regional and local scale structural geology and tectonics. Lectures are supplemented by lab exercises and demonstrations as well as local field trips.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[PHYA10H3 or PHYA11H3] and EESB15H3	[PHYA10H3 or PHYA11H3] and EESB15H3 and EESB20H3
Corequisite		
Exclusion	GLG345H	GLG345H, ESS241H
Recommended Preparation		
Enrolment Limits	20	20
Note	Students who do not have the prerequisites will be removed from the course. Priority will be given to students enrolled in the Specialist Program in Environmental Geoscience. Additional students will be admitted as space permits.	Students who do not have the prerequisites will be removed from the course. Priority will be given to students enrolled in the Specialist Program in Environmental Geoscience. Additional students will be admitted as space permits.
Instructor		

Hours

Available

Online

No

No

Course: EESD13H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Environmental Law and Ethics	Environmental Law, Policy and Ethics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course reviews the laws and policies governing the management of natural resources in Canada. It examines the role of law and how it can it can work most effectively with science, economics and politics to tackle environmental problems such as climate change, conservation, and urban sprawl at domestic and international scales.	This course reviews the laws and policies governing the management of natural resources in Canada. It examines the role of law and how it can it can work most effectively with science, economics and politics to tackle environmental problems such as climate change, conservation, and urban sprawl at domestic and international scales.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Students must have completed at least 15.0 credits	Students must have completed at least 15.0 credits
Corequisite		
Exclusion	LAW239H	LAW239H
Recommended Preparation	EESA10H3 and EESA11H3 and EESC13H3	EESA10H3 and EESA11H3 and EESC13H3
Enrolment Limits		
Note	Priority will be given to students enrolled in the Specialist and Major programs in Environmental Science. Additional students will be admitted as space permits.	Priority will be given to students enrolled in the Specialist and Major programs in Environmental Science. Additional students will be admitted as space permits.
Instructor Hours Available Online	No	No

Course: EESD15H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments	Fundamentals of Site Remediation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course consists of a study of the ways in which hazardous organic and inorganic materials can be removed or attenuated in natural systems. The theory behind various technologies, with an emphasis on bioremediation techniques and their success in practice. An introduction to the unique challenges associated with the remediation of surface and ground water environments, soils, marine systems, and contaminated sediments.	This course consists of a study of the ways in which hazardous organic and inorganic materials can be removed or attenuated in natural systems. The theory behind various technologies, with an emphasis on bioremediation techniques and their success in practice. An introduction to the unique challenges associated with the remediation of surface and ground water environments, soils, marine systems, and contaminated sediments.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3 & [PHYA10H3 or PHYA11H3]	BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3 & [PHYA10H3 or PHYA11H3]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: EESD20H3 - Compare

Course Code	EESC21H3	EESD20H3
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2016 - Environmental Science	2016 - Environmental Science
Calendar Title	Urban Environmental Problems of the Greater Toronto Area	Urban Environmental Problems of the Greater Toronto Area
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Urban areas such as the GTA are the focus of many acute environmental problems such as the disposal of solid and liquid wastes, and the contamination of soil, air and water by industrial activity. Specific cases of such problems drawn from the GTA will be reviewed, with reference to field investigations, environmental audits, due diligence and liability, and remedial solutions. Students will carry out their own field investigations and will report on specific issues, paying particular regard to government legislation and guidelines issued by regulatory agencies. This course is essential to students in the Environmental Science Program, but is also directly relevant to business and management students.	The world is increasingly urban and cities are the focus of many acute environmental problems e.g., disposal of solid and liquid wastes, and contamination of soil, air and water. These issues will be reviewed for the GTA with reference to various field and geophysical methods used to explore contaminated sites, environmental audits, government legislation and guidelines issued by regulatory agencies, and site cleanup. This course teaches essential applied skills to students in Environmental Science.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10 full credits in an EES Program.	15.0 credits, including at least 4.0 credits at the C- or D-level
Corequisite Exclusion		(EESC21H3)
Recommended Preparation		

**Enrolment
Limits
Note
Instructor
Hours
Available
Online**

No

No

Course: ENGB05H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Critical Writing about Literature	Critical Writing about Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Intensive training in critical writing about literature. Students learn essay-writing skills (explication; organization and argumentation; research techniques; bibliographies and MLA-style citation) necessary for the study of English at the university level through group workshops, multiple short papers, and a major research-based paper. This is not a grammar course; students are expected to enter with solid English literacy skills.	Intensive training in critical writing about literature. Students learn essay-writing skills (explication; organization and argumentation; research techniques; bibliographies and MLA-style citation) necessary for the study of English at the university level through group workshops, multiple short papers, and a major research-based paper. This is not a grammar course; students are expected to enter with solid English literacy skills.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	(ENGB01H3); (ENGB02H3)	(ENGB01H3)
Recommended Preparation		
Enrolment Limits	25 per section	25 per section
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC02H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Major Canadian Authors	Major Canadian Authors
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of three or more Canadian writers. This course will draw together selected major writers of Canadian fiction or of other forms. Topics vary from year to year and might include a focused study of major women writers; major racialized and ethnicized writers such as African-Canadian or Indigenous writers; major writers of a particular regional or urban location or of a specific literary period.	An examination of three or more Canadian writers. This course will draw together selected major writers of Canadian fiction or of other forms. Topics vary from year to year and might include a focused study of major women writers; major racialized and ethnicized writers such as African-Canadian or Indigenous writers; major writers of a particular regional or urban location or of a specific literary period.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or [ENGB06H3 or ENGB07H3]	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB06H3 or ENGB07H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC03H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Topics in Canadian Fiction	Topics in Canadian Fiction
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An analysis of Canadian fiction with regard to the problems of representation. Topics considered may include how Canadian fiction writers have responded to and documented the local; social rupture and historical trauma; and the problematics of representation for marginalized societies, groups, and identities.	An analysis of Canadian fiction with regard to the problems of representation. Topics considered may include how Canadian fiction writers have responded to and documented the local; social rupture and historical trauma; and the problematics of representation for marginalized societies, groups, and identities.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or [ENGB06H3 or ENGB07H3]	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB06H3 or ENGB07H3]
Corequisite		
Exclusion	ENG353Y, (ENG216Y)	ENG353Y, (ENG216Y)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC07H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Canadian Drama	Canadian Drama
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of major Canadian playwrights with an emphasis on the creation of a national theatre, distinctive themes that emerge, and their relation to regional and national concerns. This course explores the perspectives of Québécois, feminist, Native, queer, ethnic, and Black playwrights who have shaped Canadian theatre.	A study of major Canadian playwrights with an emphasis on the creation of a national theatre, distinctive themes that emerge, and their relation to regional and national concerns. This course explores the perspectives of Québécois, feminist, Native, queer, ethnic, and Black playwrights who have shaped Canadian theatre.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or ENGB06H3 or ENGB07H3 Alternative prerequisites: [VPDB10H3 & VPDB11H3]	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)]; or ENGB06H3 or ENGB07H3 ; Alternative prerequisites: [VPDB10H3 & VPDB11H3]
Corequisite		
Exclusion	ENG352H, (ENG223H)	ENG352H, (ENG223H)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours Available Online	No	No

Course: ENGC09H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Canadian Poetry	Canadian Poetry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of contemporary Canadian poetry in English, with a changing emphasis on the poetry of particular time-periods, regions, and communities. Discussion will focus on the ways poetic form achieves meaning and opens up new strategies for thinking critically about the important social and political issues of our world.	A study of contemporary Canadian poetry in English, with a changing emphasis on the poetry of particular time-periods, regions, and communities. Discussion will focus on the ways poetic form achieves meaning and opens up new strategies for thinking critically about the important social and political issues of our world.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or ENGB06H3 or ENGB07H3	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or ENGB06H3 or ENGB07H3
Corequisite		
Exclusion	ENG354Y	ENG354Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours Available Online	No	No

Course: ENGC10H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Studies in Shakespeare	Studies in Shakespeare
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the plays of Shakespeare. An in-depth study of select plays from Shakespeare's dramatic corpus combined with an introduction to the critical debates within Shakespeare studies. Students will gain a richer understanding of Shakespeare's texts and their critical reception. Pre-1900 course	A study of the plays of Shakespeare. An in-depth study of select plays from Shakespeare's dramatic corpus combined with an introduction to the critical debates within Shakespeare studies. Students will gain a richer understanding of Shakespeare's texts and their critical reception. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or (ENGB10H3) and [ENGB32H3 or ENGB33H3]	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB10H3)] and [ENGB32H3 or ENGB33H3]
Corequisite		
Exclusion	ENG336H	ENG336H
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC12H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Individualism and Community in American Literature	Individualism and Community in American Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of the tension in American literature between two conflicting concepts of self. We will examine the influence on American literature of the opposition between an abstract, "rights-based," liberal-individualist conception of the self and a more traditional, communitarian sense of the self as determined by inherited regional, familial, and social bonds.	An exploration of the tension in American literature between two conflicting concepts of self. We will examine the influence on American literature of the opposition between an abstract, "rights-based," liberal-individualist conception of the self and a more traditional, communitarian sense of the self as determined by inherited regional, familial, and social bonds.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or [ENGB08H3 & ENGB09H3]	[ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]] or [ENGB08H3 & ENGB09H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC13H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Ethnic Traditions in American Literature	Ethnic Traditions in American Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A survey of the literature of Native Peoples, Africans, Irish, Jews, Italians, Latinos, and East Asians in the U.S, focusing on one or two groups each term. We will look at how writers of each group register the affective costs of the transition from "old-world" communalism to "new-world" individualism.	A survey of the literature of Native Peoples, Africans, Irish, Jews, Italians, Latinos, and East Asians in the U.S, focusing on one or two groups each term. We will look at how writers of each group register the affective costs of the transition from "old-world" communalism to "new-world" individualism.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]] or [ENGB08H3 & ENGB09H3].	[ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]] or [ENGB08H3 & ENGB09H3].
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC15H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Concepts in Literary Criticism	Concepts in Literary Criticism
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of selected topics in literary criticism. Schools of criticism and critical methodologies such as New Criticism, structuralism, poststructuralism, Marxism, psychoanalysis, gender and sexuality studies, New Historicism, and postcolonialism will be covered, both to give students a roughly century-wide survey of the field and to provide them with a range of models applicable to their own critical work as writers and thinkers. Recommended for students planning to pursue graduate study in English literature.	A study of selected topics in literary criticism. Schools of criticism and critical methodologies such as New Criticism, structuralism, poststructuralism, Marxism, psychoanalysis, gender and sexuality studies, New Historicism, and postcolonialism will be covered, both to give students a roughly century-wide survey of the field and to provide them with a range of models applicable to their own critical work as writers and thinkers. Recommended for students planning to pursue graduate study in English literature.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG280H, (ENG267H)	ENG280H, (ENG267H)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		

**Available
Online**

No

No

Course: ENGC16H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Bible and Literature I	The Bible and Literature I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Literary analysis of the Hebrew Bible (Christian Old Testament) and its profound influence on literature. This course considers both the literary nature of and the influence on literature of such narratives as the fall of Adam and Eve, Noah's flood, Abraham's binding of Isaac, and the story of Moses, The Song of Solomon, Job, Jonah, Jeremiah. Pre-1900 course	Literary analysis of the Hebrew Bible (Christian Old Testament) and its profound influence on literature. This course considers both the literary nature of and the influence on literature of such narratives as the fall of Adam and Eve, Noah's flood, Abraham's binding of Isaac, and the story of Moses, The Song of Solomon, Job, Jonah, Jeremiah. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	(ENGB42H3), (ENG200Y)	(ENGB42H3), (ENG200Y)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC21H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Victorian Novel to 1860	The Victorian Novel to 1860
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of major works of Victorian fiction, 1830-1860. This course focuses on the development of the realist novel in its social context. Authors studied might include Charles Dickens, William Makepeace Thackeray, the Bronte sisters, Anthony Trollope and Elizabeth Gaskell. Pre-1900 course	A study of major works of Victorian fiction, 1830-1860. This course focuses on the development of the realist novel in its social context. Authors studied might include Charles Dickens, William Makepeace Thackeray, the Bronte sisters, Anthony Trollope and Elizabeth Gaskell. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG324Y	ENG324Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC22H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Victorian Novel after 1860	The Victorian Novel after 1860
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of major works of Victorian fiction, 1860-1901. This course examines the emergence of the sensation novel, fantasy and science fiction, and high Victorian realism. Authors studied might include George Eliot, Wilkie Collins, George MacDonald, Thomas Hardy, Robert Louis Stevenson, H.G. Wells, Joseph Conrad, or Rudyard Kipling. Pre-1900 course	A study of major works of Victorian fiction, 1860-1901. This course examines the emergence of the sensation novel, fantasy and science fiction, and high Victorian realism. Authors studied might include George Eliot, Wilkie Collins, George MacDonald, Thomas Hardy, Robert Louis Stevenson, H.G. Wells, Joseph Conrad, or Rudyard Kipling. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG324Y	ENG324Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC23H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Fantasy and the Fantastic in Literature and the Other Arts	Fantasy and the Fantastic in Literature and the Other Arts
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of fantasy and the fantastic from 1800 to the present. Students will consider various theories of the fantastic in order to chart the complex genealogy of modern fantasy across a wide array of literary genres (fairy tales, poems, short stories, romances, and novels) and visual arts (painting, architecture, comics, and film).	A study of fantasy and the fantastic from 1800 to the present. Students will consider various theories of the fantastic in order to chart the complex genealogy of modern fantasy across a wide array of literary genres (fairy tales, poems, short stories, romances, and novels) and visual arts (painting, architecture, comics, and film).
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG239H	ENG239H
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC26H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Drama: Tragedy	Drama: Tragedy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of major dramatic tragedies in the classic and English tradition. European philosophers and literary critics since Aristotle have sought to understand and define the genre of tragedy, one of the oldest literary forms in existence. In this course, we will read representative works of dramatic tragedy and investigate how tragedy as a genre has evolved over the centuries. Pre-1900 course	An exploration of major dramatic tragedies in the classic and English tradition. European philosophers and literary critics since Aristotle have sought to understand and define the genre of tragedy, one of the oldest literary forms in existence. In this course, we will read representative works of dramatic tragedy and investigate how tragedy as a genre has evolved over the centuries. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] Alternative pre/co-requisites: VPDB10H3 & VPDB11H3	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] Alternative pre/co-requisites: VPDB10H3 & VPDB11H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		

**Available
Online**

No

No

Course: ENGC27H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Drama: Comedy	Drama: Comedy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An historical exploration of comedy as a major form of dramatic expression. Comedy, like its more august counterparty tragedy, has been subjected to centuries of theoretical deliberation about its form and function. In this course, we will read representative works of dramatic comedy and consider how different ages have developed their own unique forms of comedy. Pre-1900 course	An historical exploration of comedy as a major form of dramatic expression. Comedy, like its more august counterparty tragedy, has been subjected to centuries of theoretical deliberation about its form and function. In this course, we will read representative works of dramatic comedy and consider how different ages have developed their own unique forms of comedy. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] Alternative prerequisites: VPDB10H3 & VPDB11H3	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] Alternative prerequisites: VPDB10H3 & VPDB11H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		

**Available
Online**

No

No

Course: ENGC29H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Chaucer	Chaucer
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Selections from <i>The Canterbury Tales</i> and other works by the greatest English writer before Shakespeare. In studying Chaucer's medieval masterpiece, students will encounter a variety of tales and tellers, with subject matter that ranges from broad and bawdy humour through subtle social satire to moral fable. Pre-1900 course	Selections from <i>The Canterbury Tales</i> and other works by the greatest English writer before Shakespeare. In studying Chaucer's medieval masterpiece, students will encounter a variety of tales and tellers, with subject matter that ranges from broad and bawdy humour through subtle social satire to moral fable. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG300Y	ENG300Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC30H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Studies in Medieval Literature	Studies in Medieval Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of selected medieval texts by one or more authors. Pre-1900 course	A study of selected medieval texts by one or more authors. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG311H	ENG311H
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC33H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Deceit, Dissent, and the English Civil Wars, 1603-1660	Deceit, Dissent, and the English Civil Wars, 1603-1660
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the poetry, prose, and drama written in England between the death of Queen Elizabeth in 1603 and the Restoration of the monarchy in 1660. This course will examine the innovative literature of these politically tumultuous years alongside debates concerning personal and political sovereignty, religion, censorship, ethnicity, courtship and marriage, and women's authorship. Pre-1900 course	A study of the poetry, prose, and drama written in England between the death of Queen Elizabeth in 1603 and the Restoration of the monarchy in 1660. This course will examine the innovative literature of these politically tumultuous years alongside debates concerning personal and political sovereignty, religion, censorship, ethnicity, courtship and marriage, and women's authorship. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG304Y	ENG304Y
Recommended Preparation	ENGB32H3 or ENGB33H3	ENGB32H3 or ENGB33H3
Enrolment Limits	45	45
Note		
Instructor Hours Available Online	No	No

Course: ENGC34H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Early Modern Women and Literature, 1500-1700	Early Modern Women and Literature, 1500-1700
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A focused exploration of women's writing in the early modern period. This course considers the variety of texts produced by women (including closet drama, religious and secular poetry, diaries, letters, prose romance, translations, polemical tracts, and confessions), the contexts that shaped those writings, and the theoretical questions with which they engage. Pre-1900 course	A focused exploration of women's writing in the early modern period. This course considers the variety of texts produced by women (including closet drama, religious and secular poetry, diaries, letters, prose romance, translations, polemical tracts, and confessions), the contexts that shaped those writings, and the theoretical questions with which they engage. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB50H3 or [ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]]	ENGB50H3 or [ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]]
Corequisite		
Exclusion		
Recommended Preparation	[ENGB32H3 or ENGB33H3] and [ENGC10H3 or (ENGC32H2) or ENGC33H3]	[ENGB32H3 or ENGB33H3] and [ENGC10H3 or (ENGC32H2) or ENGC33H3]
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC35H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Imagined Communities in Early Modern England, 1500-1700	Imagined Communities in Early Modern England, 1500-1700
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the real and imagined multiculturalism of early modern English life. How did English encounters and exchanges with people, products, languages, and material culture from around the globe redefine ideas of national, ethnic, and racial community? In exploring this question, we will consider drama, poetry, travel journals, autobiography, letters, cookbooks, costume books, and maps. Pre-1900 course	A study of the real and imagined multiculturalism of early modern English life. How did English encounters and exchanges with people, products, languages, and material culture from around the globe redefine ideas of national, ethnic, and racial community? In exploring this question, we will consider drama, poetry, travel journals, autobiography, letters, cookbooks, costume books, and maps. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite Exclusion		
Recommended Preparation	[ENGB32H3 or ENGB33H3] & [ENGC10H3 or (ENGC32H3) or ENGC33H3]	[ENGB32H3 or ENGB33H3] & [ENGC10H3 or (ENGC32H3) or ENGC33H3]
Enrolment Limits	45	45
Note		
Instructor Hours Available Online	No	No

Course: ENGC36H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Literature and Culture, 1660-1750	Literature and Culture, 1660-1750
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Studies in literature and literary culture during a turbulent era that was marked by extraordinary cultural ferment and literary experimentation. During this period satire and polemic flourished, Milton wrote his great epic, Behn her brilliant comedies, Swift his bitter attacks, and Pope his technically balanced but often viciously biased poetry.</p> <p>Pre-1900 course</p>	<p>Studies in literature and literary culture during a turbulent era that was marked by extraordinary cultural ferment and literary experimentation. During this period satire and polemic flourished, Milton wrote his great epic, Behn her brilliant comedies, Swift his bitter attacks, and Pope his technically balanced but often viciously biased poetry.</p> <p>Pre-1900 course</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [either ENGB05H3 or (ENGB01H3) & (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [either ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG305H	ENG305H
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC37H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Literature and Culture, 1750-1830	Literature and Culture, 1750-1830
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of literature and literary culture during the end of the eighteenth and beginning of the nineteenth centuries. We will trace the development of a consciously national culture, and birth of the concepts of high, middle, and low cultures. Authors may include Johnson, Boswell, Burney, Sheridan, Yearsley, Blake, and Wordsworth. Pre-1900 course	An exploration of literature and literary culture during the end of the eighteenth and beginning of the nineteenth centuries. We will trace the development of a consciously national culture, and birth of the concepts of high, middle, and low cultures. Authors may include Johnson, Boswell, Burney, Sheridan, Yearsley, Blake, and Wordsworth. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC38H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1750	Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1750
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of generic experimentation that began during the English Civil Wars and led to the novel. We will address such authors as Aphra Behn and Daniel Defoe, alongside news, ballads, and scandal sheets; and look at the book trade, censorship, and the growth of the popular press. Pre-1900 course	An examination of generic experimentation that began during the English Civil Wars and led to the novel. We will address such authors as Aphra Behn and Daniel Defoe, alongside news, ballads, and scandal sheets; and look at the book trade, censorship, and the growth of the popular press. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG322Y	ENG322Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC39H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Early Novel in Context, 1740-1830	The Early Novel in Context, 1740-1830
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A contextual study of the first fictions that contemporaries recognized as being the novel. We will examine the novel in the context of its readers; of neighbouring genres such as letters, non-fiction travel writing, conduct manuals; and of culture more generally. Authors might include Richardson, Fielding, Sterne, Burney, Austen and others. Pre-1900 course	A contextual study of the first fictions that contemporaries recognized as being the novel. We will examine the novel in the context of its readers; of neighbouring genres such as letters, non-fiction travel writing, conduct manuals; and of culture more generally. Authors might include Richardson, Fielding, Sterne, Burney, Austen and others. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG322Y	ENG322Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC42H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Romanticism	Romanticism
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the Romantic Movement in European literature, 1750-1850. This course investigates the cultural and historical origins of the Romantic Movement, its complex definitions and varieties of expression, and the responses it provoked in the wider culture. Examination of representative authors such as Goethe, Rousseau, Wollstonecraft, Wordsworth, Coleridge, Blake, P. B. Shelley, Keats, Byron and M. Shelley will be combined with study of the philosophical and historical backgrounds of Romanticism. Pre-1900 course	A study of the Romantic Movement in European literature, 1750-1850. This course investigates the cultural and historical origins of the Romantic Movement, its complex definitions and varieties of expression, and the responses it provoked in the wider culture. Examination of representative authors such as Goethe, Rousseau, Wollstonecraft, Wordsworth, Coleridge, Blake, P. B. Shelley, Keats, Byron and M. Shelley will be combined with study of the philosophical and historical backgrounds of Romanticism. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	ENG308Y	ENG308Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: ENGC43H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Nineteenth-Century Literature and Contemporary Culture	Nineteenth-Century Literature and Contemporary Culture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An investigation of how nineteenth-century literature is translated into our contemporary world through art forms like music, architecture, film, television, graphic novels, or online and social media. What is it that makes us keep returning to the past, and how does each adaptation re-make the original into something new and relevant? Pre-1900 course.	An investigation of how nineteenth-century literature is translated into our contemporary world through art forms like music, architecture, film, television, graphic novels, or online and social media. What is it that makes us keep returning to the past, and how does each adaptation re-make the original into something new and relevant? Pre-1900 course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC44H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Self and Other in Literature and Film	Self and Other in Literature and Film
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the relation between self and other in narrative fiction. This course will examine three approaches to the self-other relation: the moral relation, the epistemological relation, and the functional relation. Examples will be chosen to reflect engagements with gendered others, with historical others, with generational others, with cultural and national others.	A study of the relation between self and other in narrative fiction. This course will examine three approaches to the self-other relation: the moral relation, the epistemological relation, and the functional relation. Examples will be chosen to reflect engagements with gendered others, with historical others, with generational others, with cultural and national others.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC47H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Modernist Poetry	Modernist Poetry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of poetry written roughly between the World Wars. Poets from several nations may be considered. Topics to be treated include Modernist difficulty, formal experimentation, and the politics of verse. Literary traditions from which Modernist poets drew will be discussed, as will the influence of Modernism on postmodern writing.	A study of poetry written roughly between the World Wars. Poets from several nations may be considered. Topics to be treated include Modernist difficulty, formal experimentation, and the politics of verse. Literary traditions from which Modernist poets drew will be discussed, as will the influence of Modernism on postmodern writing.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC48H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Satire	Satire
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An investigation of the literatures and theories of the unthinkable, the reformist, the iconoclastic, and the provocative. Satire can be conservative or subversive, corrective or anarchic. This course will address a range of satire and its theories. Writers may range from Juvenal, Horace, Lucian, Erasmus, Donne, Jonson, Rochester, Dryden, Swift, Pope, Gay, Haywood, and Behn to Pynchon, Nabokov and Atwood. Pre-1900 course	An investigation of the literatures and theories of the unthinkable, the reformist, the iconoclastic, and the provocative. Satire can be conservative or subversive, corrective or anarchic. This course will address a range of satire and its theories. Writers may range from Juvenal, Horace, Lucian, Erasmus, Donne, Jonson, Rochester, Dryden, Swift, Pope, Gay, Haywood, and Behn to Pynchon, Nabokov and Atwood. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	(ENGD67H3)	(ENGD67H3)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC50H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Studies in Contemporary American Fiction	Studies in Contemporary American Fiction
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Developments in American fiction from the end of the 1950s to the present. A study of fiction from the period that produced James Baldwin, Saul Bellow, Philip Roth, John Updike, Norman Mailer, Ann Beatty, Raymond Carver, Don DeLillo, Toni Morrison, Maxine Hong Kingston, and Leslie Marmon Silko. The course may be organized around themes or movements.	Developments in American fiction from the end of the 1950s to the present. A study of fiction from the period that produced James Baldwin, Saul Bellow, Philip Roth, John Updike, Norman Mailer, Ann Beatty, Raymond Carver, Don DeLillo, Toni Morrison, Maxine Hong Kingston, and Leslie Marmon Silko. The course may be organized around themes or movements.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or [ENGB08H3 & ENGB09H3]	[ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB08H3 & ENGB09H3]
Corequisite		
Exclusion	ENG365H, (ENG361H)	ENG365H, (ENG361H)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC51H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Contemporary Arab Women Writers	Contemporary Arab Women Writers
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of Arab women writers from the late nineteenth century to the present. Their novels, short stories, essays, poems, and memoirs invite us to rethink western perceptions of Arab women; therefore, issues of gender, religion, class, nationalism, and colonialism will be examined from Arab women's perspectives, from both the Arab world and North America.	A study of Arab women writers from the late nineteenth century to the present. Their novels, short stories, essays, poems, and memoirs invite us to rethink western perceptions of Arab women; therefore, issues of gender, religion, class, nationalism, and colonialism will be examined from Arab women's perspectives, from both the Arab world and North America.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC56H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Literature and Media: From Page to Screen	Literature and Media: From Page to Screen
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of the relationship between written literature and film and television. What happens when literature influences film and vice versa, and when literary works are recast as visual media (including the effects of rewriting, reproduction, adaptation, serialization and sequelization)?	An exploration of the relationship between written literature and film and television. What happens when literature influences film and vice versa, and when literary works are recast as visual media (including the effects of rewriting, reproduction, adaptation, serialization and sequelization)?
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC59H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Geography and Regionalism in Literature	Geography and Regionalism in Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Analysis of space and place in literature. This course studies representations of space in literature - whether geographical, regional, or topographical - that offer conceptual alternatives to the nation, state, or tribe. Geographical or regional focus may change depending on instructor.	Analysis of space and place in literature. This course studies representations of space in literature - whether geographical, regional, or topographical - that offer conceptual alternatives to the nation, state, or tribe. Geographical or regional focus may change depending on instructor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	[ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]] or [SOCB58H3 ; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]	[ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]] or [SOCB58H3 ; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC69H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Gothic Literature	Gothic Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of the Gothic tradition in literature since 1760. Drawing on texts such as Horace Walpole's <i>The Castle of Otranto</i> , Jane Austen's <i>Northanger Abbey</i> , Henry James' <i>The Turn of the Screw</i> , and Anne Rice's <i>Interview with the Vampire</i> , this course will consider how the notion of the "Gothic" has developed across historical periods and how Gothic texts represent the supernatural, the uncanny, and the nightmares of the unconscious mind. Pre-1900 course	A study of the Gothic tradition in literature since 1760. Drawing on texts such as Horace Walpole's <i>The Castle of Otranto</i> , Jane Austen's <i>Northanger Abbey</i> , Henry James' <i>The Turn of the Screw</i> , and Anne Rice's <i>Interview with the Vampire</i> , this course will consider how the notion of the "Gothic" has developed across historical periods and how Gothic texts represent the supernatural, the uncanny, and the nightmares of the unconscious mind. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours Available Online	No	No

Course: ENGC70H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Immigrant Experience in Literature to 1980	The Immigrant Experience in Literature to 1980
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of twentieth-century literature, especially fiction, written out of the experience of people who leave one society to come to another already made by others. We will compare the literatures of several ethnic communities in at least three nations, the United States, Britain, and Canada.	An examination of twentieth-century literature, especially fiction, written out of the experience of people who leave one society to come to another already made by others. We will compare the literatures of several ethnic communities in at least three nations, the United States, Britain, and Canada.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC71H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	The Immigrant Experience in Literature since 1980	The Immigrant Experience in Literature since 1980
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of ENGC70H3, focusing on texts written since 1980.	A continuation of ENGC70H3, focusing on texts written since 1980.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] & ENGC70H3	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] & ENGC70H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC72H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Contemporary Literature from Africa	Contemporary Literature from Africa
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of fiction, drama, and poetry from English-speaking Africa. The course will examine the relation of English-language writing to indigenous languages, to orality, and to audience, as well as the issues of creating art in a world of suffering and of de-colonizing the narrative of history.	A study of fiction, drama, and poetry from English-speaking Africa. The course will examine the relation of English-language writing to indigenous languages, to orality, and to audience, as well as the issues of creating art in a world of suffering and of de-colonizing the narrative of history.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] or AFSA01H3	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] or AFSA01H3
Corequisite		
Exclusion	ENG278Y	ENG278Y
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC78H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Dystopian Visions in Fiction and Film	Dystopian Visions in Fiction and Film
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of negative utopias and post-apocalyptic worlds. The course will draw from novels such as <i>1984</i> , <i>Brave New World</i> , <i>Clockwork Orange</i> , and <i>Oryx and Crake</i> , and films such as <i>Metropolis</i> , <i>Mad Max</i> , <i>Brazil</i> , and <i>The Matrix</i> . Why do we find stories about the world gone wrong so compelling?	An exploration of negative utopias and post-apocalyptic worlds. The course will draw from novels such as <i>1984</i> , <i>Brave New World</i> , <i>Clockwork Orange</i> , and <i>Oryx and Crake</i> , and films such as <i>Metropolis</i> , <i>Mad Max</i> , <i>Brazil</i> , and <i>The Matrix</i> . Why do we find stories about the world gone wrong so compelling?
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC80H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Modernist Narrative	Modernist Narrative
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Advanced study of a crucial period for the development of new forms of narrative and the beginnings of formal narrative theory, in the context of accelerating modernity.	Advanced study of a crucial period for the development of new forms of narrative and the beginnings of formal narrative theory, in the context of accelerating modernity.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC82H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Cinema Studies: Themes and Theories	Cinema Studies: Themes and Theories
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A variable theme course that will feature different theoretical approaches to Cinema: feminist, Marxist, psychoanalytic, postcolonial, and semiotic. Thematic clusters include "Madness in Cinema," and "Films on Films."	A variable theme course that will feature different theoretical approaches to Cinema: feminist, Marxist, psychoanalytic, postcolonial, and semiotic. Thematic clusters include "Madness in Cinema," and "Films on Films."
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC83H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Studies in World Cinema	Studies in World Cinema
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of Non-Western films. This course analyzes a selection of African, Asian, and Middle Eastern films both on their own terms and against the backdrop of issues of colonialism and globalization.	A study of Non-Western films. This course analyzes a selection of African, Asian, and Middle Eastern films both on their own terms and against the backdrop of issues of colonialism and globalization.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]] or [SOCB58H3 ; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]	[ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]] or [SOCB58H3 ; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC90H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Topics in Classical Myth and Literature	Topics in Classical Myth and Literature
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course pursues the in-depth study of a small set of myths. We will explore how a myth or mythological figure is rendered in a range of literary texts ancient and modern, and examine each text as both an individual work of art and a strand that makes up the fabric of each given myth. Pre-1900 course	This course pursues the in-depth study of a small set of myths. We will explore how a myth or mythological figure is rendered in a range of literary texts ancient and modern, and examine each text as both an individual work of art and a strand that makes up the fabric of each given myth. Pre-1900 course
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)] and ENGB30H3	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)] and ENGB30H3
Corequisite		
Exclusion	CLAC01H3 , (ENGC58H3), (ENGC60H3), (ENGC61H3)	CLAC01H3 , (ENGC58H3), (ENGC60H3), (ENGC61H3)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC91H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	American Realisms	American Realisms
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of late nineteenth- and early twentieth-century American realism and naturalism in literary and visual culture. This course will explore the work of writers such as Henry James, William Dean Howells, Edith Wharton, Charles Chesnutt, Stephen Crane, Frank Norris, Kate Chopin, and Theodore Dreiser alongside early motion pictures, photographs, and other images from the period.	An exploration of late nineteenth- and early twentieth-century American realism and naturalism in literary and visual culture. This course will explore the work of writers such as Henry James, William Dean Howells, Edith Wharton, Charles Chesnutt, Stephen Crane, Frank Norris, Kate Chopin, and Theodore Dreiser alongside early motion pictures, photographs, and other images from the period.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGD13H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2016 - English	2016 - English
Calendar Title	Rap Poetics	Rap Poetics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An intensive study of rhetoric, genre, meaning, and form in rap lyrics. The three-decade-plus recorded history of this popular poetry will be discussed in rough chronological order. Aspects of African-American poetics, as well as folk and popular song, germane to the development of rap will be considered, as will narrative and vernacular strategies in lyric more generally; poetry's role in responding to personal need and to social reality will also prove relevant.	An intensive study of rhetoric, genre, meaning, and form in rap lyrics. The three-decade-plus recorded history of this popular poetry will be discussed in rough chronological order. Aspects of African-American poetics, as well as folk and popular song, germane to the development of rap will be considered, as will narrative and vernacular strategies in lyric more generally; poetry's role in responding to personal need and to social reality will also prove relevant.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Corequisite		
Exclusion	(ENGC73H3), (ENGD63H3)	(ENGC73H3), (ENGD63H3)
Recommended Preparation		
Enrolment Limits	22	22
Note		
Instructor Hours Available Online	No	No

Course: FREB11H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2016 - French	2016 - French
Calendar Title	French Language in the School System	French Language in the School System
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is intended for students considering a career in language teaching. It involves a series of seminars as well as preparation for observations in local schools throughout the duration of the course.	This course is intended for students considering a career in language teaching. It involves a series of seminars as well as preparation for observations in local schools throughout the duration of the course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[FREAO1H3] & [FREAO2H3] or equivalent.	[FREAO1H3] & [FREAO2H3] or equivalent.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		Students taking this course will need to have a police check completed with the police board in the jurisdiction for which they reside. Completed police checks must be submitted to the instructor during the first day of class.
Instructor Hours Available Online	No	No

Course: FREB18H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2016 - French	2016 - French
Calendar Title	French in the Workplace	Business French
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The French language in a commercial or economic context. Of interest, among others, to students in French, Business, Accounting, Management, and Economics, this course emphasizes commercial writing techniques and exercises that include the vocabulary and structures of business language.	The French language in a commercial or economic context. Of interest, among others, to students in French, Business, Accounting, Management, and Economics, this course emphasizes commercial writing techniques and exercises that include the vocabulary and structures of business language.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[FREA01H3] & [FREA02H3] or equivalent.	[FREA01H3] & [FREA02H3] or equivalent.
Corequisite		
Exclusion	FSL366H	FSL366H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: GASB77H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Asia in Display	Modern Asian Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingual practices, and multiple modernism. Same as VPHB77H3	An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingual practices, and multiple modernism. Same as VPHB77H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite		
Exclusion	VPHB77H3	VPHB77H3
Recommended Preparation	VPHA46H3 or GASA01H3	VPHA46H3 or GASA01H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: GASC40H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Chinese Media and Politics	Chinese Media and Politics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the complex and dynamic interplay of media and politics in contemporary China, and the role of the government in this process. Same as MDSC40H3	This course examines the complex and dynamic interplay of media and politics in contemporary China, and the role of the government in this process. Same as MDSC40H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	4.0 credits, including (HUMA01H3) or ACMA01H3	4.0 credits, including ACMB01H3
Corequisite		
Exclusion	MDSC40H3	MDSC40H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: GASC41H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Media and Popular Culture in East and Southeast Asia	Media and Popular Culture in East Asia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to media industries and commercial popular cultural forms in East and Southeast Asia. Topics include reality TV, TV dramas, anime, and manga as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in Asia. Same as (IEEC21H3) and MDSC41H3	This course introduces students to media industries and commercial popular cultural forms in East Asia. Topics include reality TV, TV dramas, anime, and manga as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in East Asia. Same as MDSC41H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	4.0 credits, including [(HUMA01H3) or ACMA01H3]	4.0 credits, including ACMB01H3
Corequisite		
Exclusion	(HUMC54H3), (IEEC21H3) and MDSC41H3	MDSC41H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: GASC43H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Colonialisms and Cultures in Modern East Asia	Colonialisms and Cultures in Modern East Asia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores Japanese colonialism and its cultures in East Asia. It seeks to understand the central role that culture played in the development of colonialism, modernity, and nationalism in modern Japan, Korea, China, and Taiwan. Key issues include sexuality, race, medicine, mass media, and consumption.	This course explores the development of colonialism, modernity, and nationalism in modern Japan, Korea, China, and Taiwan. Key issues include sexuality, race, medicine, mass media, and consumption.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	GASB35H3 , and only one of [GASB20H3 or GASB58H3/HISB58H3 or GASC20H3]	Any one of [GASB20H3 or GASB58H3/HISB58H3 or GASC20H3]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	50	50
Note		
Instructor Hours		
Available Online	No	No

Course: GASC59H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Being Tamil: Race, Culture, Nation	The Making of Tamil Worlds
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the transnational history of Tamil nationalism in the modern world. How have ideas of race and culture created modern Tamil national identity? Themes include ethnic politics, self-determination, mass-mobilization and diaspora. Same as HISC59H3 Africa and Asia Area	This course explores the transnational history of Tamil worlds. In addition to exploring modern Tamil identities, the course will cover themes such as mass migration, ecology, social and economic life, and literary history. Same as HISC59H3 Africa and Asia Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[GASA01H3 / HISA06H3 or GASA02H3 or GASB57H3 / HISB57H3] and 1.0 additional credit in GAS or HIS courses] or [SOCB60H3 and an additional 8.0 credits]	4.0 credits and [an additional 0.5 credit in HCS or ANT courses]
Corequisite		
Exclusion	HISC59H3 , (GASB54H3), (HISB54H3)	HISC59H3 , (GASB54H3), (HISB54H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: GASC74H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	A Tale of Three Cities: Introduction to Contemporary Art in China	A Tale of Three Cities: Introduction to Contemporary Art in China
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China's persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change. Same as VPHC74H3	An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China's persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change. Same as VPHC74H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3 , VPHB73H3 , GASB58H3/HISB58H3 , GASB33H3 , or GASB35H3	2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3 , VPHB73H3 , GASB58H3/HISB58H3 , GASB33H3 , or GASB35H3
Corequisite		
Exclusion	VPHC74H3	VPHC74H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: GASD01H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Senior Seminar: Topics in Global Asian Cultures	Senior Seminar: Topics in Global Asian Migrations
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course offers an in-depth study of important cultural issues in historical and contemporary Asian and diasporic societies. Themes for study include music, art, cinema, media, literature, drama, and representations. It is conducted in seminar format with emphasis on discussion, critical reading, and writing of research papers.	This course offers an in-depth study of important cultural issues in historical and contemporary Asian, diasporic and borderland societies, including migration, mobility, and circulation. It is conducted in seminar format with emphasis on discussion, critical reading, and writing, digital skills, and primary research.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other		
Learning Nature		
Prerequisite	[[GASA01H3 and GASA02H3] and one C-level course from the options in the Specialist or Major program requirement #2] or [15.0 credits, including SOCB60H3]	[[GASA01H3 and GASA02H3] and one C-level course from the options in the Specialist or Major program requirement #2] or [15.0 credits, including SOCB60H3]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note	Topics vary from year to year. Check the website: www.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.	Topics vary from year to year. Check the website: www.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.
Instructor Hours		

**Available
Online**

No

No

Course: GASD71H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2016 - Global Asia Studies	2016 - Global Asia Studies
Calendar Title	Cuisine and Culture in Bengal & South Asia	Cuisine, Culture, and Societies Across Global Asia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines the central place of cuisine in Bengali culture and society. This course uses practical experience in cooking to understand the importance of cuisine for nation-building, family, modernity, and history in South Asia, with special attention to West Bengal, Orissa, Bangladesh, and the diaspora.	Examines the central place of cuisine to families, societies, and cultures across Global Asian societies and their diasporas, using tastes, culinary work techniques, community-based research, oral histories, digital humanities and multi-media experiential learning, as well as critical reading and writing.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	8.0 credits, including 1.0 credit from any program offered by the Department of Historical and Cultural Studies	8.0 credits, including 1.0 credit from any program offered by the Department of Historical and Cultural Studies
Corequisite Exclusion Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours Available Online	No	No

Course: GGRC32H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2016 - Geography	2016 - Geography
Calendar Title	Essential Spatial Analysis	Essential Spatial Analysis
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course builds on introductory statistics and GIS courses by introducing students to the core concepts and methods of spatial analysis. With an emphasis on spatial thinking in an urban context, topics such as distance decay, distance metrics, spatial interaction, spatial distributions, and spatial autocorrelation will be used to quantify spatial patterns and identify spatial processes. These tools are the essential building blocks for the quantitative analysis of urban spatial data.</p> <p>Area of focus: Urban Geography</p>	<p>This course builds on introductory statistics and GIS courses by introducing students to the core concepts and methods of spatial analysis. With an emphasis on spatial thinking in an urban context, topics such as distance decay, distance metrics, spatial interaction, spatial distributions, and spatial autocorrelation will be used to quantify spatial patterns and identify spatial processes. These tools are the essential building blocks for the quantitative analysis of urban spatial data.</p> <p>Area of focus: Urban Geography</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Any 8.0 credits including [STAB22H3] and GGRB30H3	Any 8.0 credits including [STAB23H3] and GGRB30H3
Corequisite		
Exclusion	GGR276H	GGR276H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

**Available
Online**

No

No

Course: HISA07H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	The Ancient Mediterranean World	The Ancient Mediterranean World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the main features of the ancient civilizations of the Mediterranean world from the development of agriculture to the spread of Islam. Long term socio-economic and cultural continuities and ruptures will be underlined, while a certain attention will be dedicated to evidences and disciplinary issues. Same as CLAA04H3	An introduction to the main features of the ancient civilizations of the Mediterranean world from the development of agriculture to the spread of Islam. Long term socio-economic and cultural continuities and ruptures will be underlined, while a certain attention will be dedicated to evidences and disciplinary issues. Same as CLAA04H3 0.50 pre-1800 credit Ancient World Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	CLAA04H3	CLAA04H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: HISC45H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	Immigrants and Race Relations in Canadian History	Immigrants and Race Relations in Canadian History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of aspects of the history of immigrants and race relations in Canada, particularly for the period 1840s 1960s. The course covers various immigrant and racialized groups and explores how class, gender and race/ethnicity shaped experiences and racial/ethnic relations. Canadian Area	An examination of aspects of the history of immigrants and race relations in Canada, particularly for the period 1840s 1960s. The course covers various immigrant and racialized groups and explores how class, gender and race/ethnicity shaped experiences and racial/ethnic relations. Canadian Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Any 4.0 credits	Any 4.0 credits
Corequisite		
Exclusion		HIS312H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: HISC52H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	A History of Ethiopia	Ethiopia: Seeing History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. 0.50 pre-1800 credit Africa and Asia Area	This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. Same as AFSC52H3 and VPHC52H3 0.50 pre-1800 credit Africa and Asia Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	1.0 credit in History	1.0 credit in History] or [VPHA46H3 and ACMB01H3 and an additional 1.0 credit in VPH courses]
Corequisite		
Exclusion		AFSC52H3, VPHC52H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: HISC55H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	War and Society in Modern Africa	War and Society in Modern Africa
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Conflict and social change in Africa from the slave trade to contemporary times. Topics include the politics of resistance, women and war, repressive and weak states, the Cold War, guerrilla movements, resource predation. Case studies of anticolonial rebellions, liberation wars, and civil conflicts will be chosen from various regions.</p> <p>Africa and Asia Area</p>	<p>Conflict and social change in Africa from the slave trade to contemporary times. Topics include the politics of resistance, women and war, repressive and weak states, the Cold War, guerrilla movements, resource predation. Case studies of anticolonial rebellions, liberation wars, and civil conflicts will be chosen from various regions.</p> <p>Same as AFSC55H3</p> <p>Africa and Asia Area</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	<p>AFSB50H3/HISB50H3 or AFSB51H3/HISB51H3 or (HISC50H3) or (HISC51H3)</p>	<p>AFSB50H3/HISB50H3 or AFSB51H3/HISB51H3 or (HISC50H3) or (HISC51H3)</p>
Corequisite		
Exclusion		AFSC55H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: HISC59H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	Being Tamil: Race, Culture, Nation	The Making of Tamil Worlds
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course explores the transnational history of Tamil nationalism in the modern world. How have ideas of race and culture created modern Tamil national identity? Themes include ethnic politics, self-determination, mass-mobilization and diaspora.</p> <p>Same as GASC59H3 Africa and Asia Area</p>	<p>This course explores the transnational history of Tamil worlds. In addition to exploring modern Tamil identities, the course will cover themes such as mass migration, ecology, social and economic life, and literary history.</p> <p>Same as GASC59H3 Africa and Asia Area</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[GASA01H3 / HISA06H3 or GASA02H3 or GASB57H3 / HISB57H3] and 1.0 additional credit in GAS or HIS courses] or [SOCB60H3 and an additional 8.0 credits]	4.0 credits and [an additional 0.5 credit in HCS or ANT courses]
Corequisite		
Exclusion	GASC59H3 , (HISB54H3), (GASB54H3)	GASC59H3 , (HISB54H3), (GASB54H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: HISD25H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	Oral History and Urban Change	Oral History and Urban Change
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An applied research methods course that introduces students to the methods and practice of Oral history, the history of Scarborough, the field of public history and community-based research. A critical part of the class will be to engage in fieldwork related to designing and conducting oral history interviews. Canadian Area	An applied research methods course that introduces students to the methods and practice of Oral history, the history of Scarborough, the field of public history and community-based research. A critical part of the class will be to engage in fieldwork related to designing and conducting oral history interviews. Canadian Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	HISB40H3 and HISB41H3	Any 4.0 credits in HIS courses
Corequisite		
Exclusion	(HISC28H3), WSTC02H3 , HISD44H3 (2013 fall session only)	(HISC28H3), WSTC02H3 (if taken in Fall 2013), WSTD10H3 , HISD44H3 (if taken in Fall 2013), CITC10H3 (if taken in Fall 2013)
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: HISD46H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	Selected Topics in Canadian Women's History	Selected Topics in Canadian Women's History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Weekly discussions of assigned readings. The course covers a broad chronological sweep but also highlights certain themes, including race and gender relations, working women and family economies, sexuality, and women and the courts. We will also explore topics in gender history, including masculinity studies and gay history. Canadian Area	Weekly discussions of assigned readings. The course covers a broad chronological sweep but also highlights certain themes, including race and gender relations, working women and family economies, sexuality, and women and the courts. We will also explore topics in gender history, including masculinity studies and gay history. Same as WSTD46H3 Canadian Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	Any credit in Canadian history	Any credit in Canadian history
Corequisite Exclusion		WSTD46H3
Recommended Preparation		
Enrolment Limits	15	15
Note	Topics vary from year to year. Check the website www.utoronto.ca/~hcs/programs/history.html for current offerings.	Topics vary from year to year. Check the website www.utoronto.ca/~hcs/programs/history.html for current offerings.
Instructor Hours Available Online	No	No

Course: HISD51H3 - Compare

Owning Organizations	HIS,HCSSC	HIS,HCSSC
Sections	2016 - History	2016 - History
Calendar Title	Southern Africa: Colonial Rule, Apartheid and Liberation	Southern Africa: Colonial Rule, Apartheid and Liberation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A seminar study of southern African history from 1900 to the present. Students will consider industrialization in South Africa, segregation, apartheid, colonial rule, liberation movements, and the impact of the Cold War. Historiography and questions of race, class and gender will be important. Extensive reading and student presentations are required. Africa and Asia Area	A seminar study of southern African history from 1900 to the present. Students will consider industrialization in South Africa, segregation, apartheid, colonial rule, liberation movements, and the impact of the Cold War. Historiography and questions of race, class and gender will be important. Extensive reading and student presentations are required. Same as AFSD51H3 Africa and Asia Area
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	8.0 credits including AFSB51H3/HISB51H3 or HISD50H3	8.0 credits including AFSB51H3/HISB51H3 or HISD50H3
Corequisite Exclusion		AFSD51H3
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: HLTB42H3 - Compare

Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	2016 - Health Studies	2016 - Health Studies
Calendar Title	Foundations of Medical Anthropology	Perspectives of Culture, Illness and Healing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to anthropological perspectives of culture, society, and language, to foster understanding of the ways that health intersects with political, economic, religious and kinship systems. Topics will include ethnographic theory and practice, cultural relativism, and social and symbolic meanings and practices regarding the body.	This course introduces students to anthropological perspectives of culture, society, and language, to foster understanding of the ways that health intersects with political, economic, religious and kinship systems. Topics will include ethnographic theory and practice, cultural relativism, and social and symbolic meanings and practices regarding the body.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	HLTA02H3 and HLTA03H3	HLTA02H3 and HLTA03H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: HLTB50H3 - Compare

Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	2016 - Health Studies	2016 - Health Studies
Calendar Title	Introduction to Health Humanities	Introduction to Health Humanities
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to human health through literature, narrative, and the visual arts. Students will develop strong critical skills in text-centered methods of analysis (i.e., the written word, visual images) through topics including representations of health, illness narratives, death and dying, patient-professional relationships, technoscience and the human body.	An introduction to human health through literature, narrative, and the visual arts. Students will develop strong critical skills in text-centered methods of analysis (i.e., the written word, visual images) through topics including representations of health, illness narratives, death and dying, patient-professional relationships, technoscience and the human body.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	HLTA02H3 and HLTA03H3	Any 4.0 credits
Corequisite		
Exclusion		
Recommended Preparation	Prior experience in humanities courses at the secondary or post-secondary level.	Prior experience in humanities courses at the secondary or post-secondary level.
Enrolment Limits		
Note		Preference will be given to students enrolled in a Health Studies program.
Instructor Hours Available Online	No	No

Course: HLTC05H3 - Compare

Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	2016 - Health Studies	2016 - Health Studies
Calendar Title	Social Determinants of Health	Society, Health and Illness
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students gain theoretical and practical skills to think about, and analyze, health inequalities, and also develop an understanding of illness and inequality as socially produced phenomena. Critical perspectives about the cultural, historic, political and structural conditions that shape people's living conditions are emphasized. Dominant ideas about health inequalities are challenged through engagement with social sciences literature.	Students gain theoretical and practical skills to think about, and analyze, health inequalities, and also develop an understanding of illness and inequality as socially produced phenomena. Critical perspectives about the cultural, historic, political and structural conditions that shape people's living conditions are emphasized. Dominant ideas about health inequalities are challenged through engagement with social sciences literature.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	HLTB40H3	HLTB40H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: JOUB14H3 - Compare

Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	2016 - Journalism	2016 - Journalism
Calendar Title	Journalism Design	Multiplatform Design
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students develop skills to produce multiplatform layouts, including broadsheet, tabloid and website formats, in preparation for experience on the print and online "Observer". Students will use InDesign to produce attractively designed journalistic layouts that reflect sound news judgment. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.	This course provides an introduction to the principles of design and aims to help students develop the skills they will need to package and present news and feature content across print and digital platforms. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	10 credits including [(MDSA21H3) or JOUA01H3]; [(MDSA22H3) or JOUA02H3]; [(MDSB26H3) or JOUB01H3]; [(MDSB27H3) or JOUB02H3]; (HUMB11H3).	10 credits including [(MDSA21H3) or JOUA01H3]; and [(MDSA22H3) or JOUA02H3]; and [(MDSB26H3) or JOUB01H3]; and [(MDSB27H3) or JOUB02H3]; students must have a minimum 2.0 CGPA to take this course.
Corequisite Exclusion	JOUA06H3 & JOUB11H3 & JOUB18H3	JOUA06H3 & JOUB11H3 & JOUB18H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: JOUB20H3 - Compare

Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	2016 - Journalism	2016 - Journalism
Calendar Title	Multiplatform Journalism	Interactive Journalism
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course focuses on design and writing for multiplatform presentations of editorial content. Instruction includes gathering, editing and uploading text, audio and video for display on websites and mobile handheld devices. Students learn the mechanics of news website construction and maintenance and protocols for storytelling in a digital milieu. This course is taught at Centennial College and is open only to students in the Journalism Program.</p>	<p>Newsgathering today requires journalists to be able to file to a number of different media platforms. This course builds on JOUB11H3 and introduces students to new production protocols appropriate for digital news media. It focuses on orienting students to the multiplatform and web-focused environment by refining reporting/writing/production skills already acquired for the special needs of digital news operations. Using a multiplatform, newsroom-in-action format, the course includes instruction in skills related to gathering, editing and uploading custom interactive content and data presentations and will outline protocols for audience interaction. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	12 credits, including JOUA06H3 , JOUB11H3 , JOUB14H3 & JOUB18H3	12 credits, including JOUA06H3 , JOUB11H3 , JOUB14H3 & JOUB18H3 ; students must have a minimum 2.0 CGPA to take this course.
Corequisite	JOUB03H3 , JOUB05H3 , JOUB10H3 & JOUB17H3	JOUB03H3 , JOUB05H3 , JOUB10H3 & JOUB17H3
Exclusion		

**Recommended
Preparation
Enrolment
Limits
Note
Instructor
Hours
Available
Online**

No

No

Course: JOUC13H3 - Compare

Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	2016 - Journalism	2016 - Journalism
Calendar Title	Beat Reporting	Entrepreneurial Reporting
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Student teams conduct market research and prepare a business proposal. Each student writes five stories with audio and video elements. Each team publishes the work in a new niche magazine and designs a website, using multi-media skills of writing, photography, audio and video. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.</p>	<p>This is an advanced, multimedia content-driven course where students, working in groups and under faculty supervision, select a narrow topic and conduct preliminary research to prepare and present a proposal. After the approval of their proposal, students will research, write, shoot and produce a series of stories, including at least one documentary-style video, and for a final project, a website and a magazine. Students will be graded on their individual work as well as their teamwork and professionalism. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	14.5 credits, including JOUB03H3 , JOUB05H3 , JOUB10H3 , JOUB17H3 & [(JOUB09H3) or JOUB20H3]	14.5 credits, including JOUB03H3 , JOUB05H3 , JOUB10H3 , JOUB17H3 & [(JOUB09H3) or JOUB20H3]; students must have a minimum 2.0 CGPA to take this course.
Corequisite Exclusion	JOUC16Y3 & JOUC17H3	JOUC16Y3 & JOUC17H3
Recommended Preparation		
Enrolment Limits		

Note

Instructor

Hours

Available No

No

Online

Course: JOUC62H3 - Compare

Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	2016 - Journalism	2016 - Journalism
Calendar Title	Media and the World of Work	Media and the World of Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context. Same as MDSC62H3	The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context. Same as MDSC62H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]	[ACMB01H3 and [MDSA01H3 and MDSB05H3]] or [JOUA01H3 and JOUA02H3]
Corequisite		
Exclusion	MDSC62H3	MDSC62H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: JOUC63H3 - Compare

Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	2016 - Journalism	2016 - Journalism
Calendar Title	Media Ethics	Media Ethics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture. Same as MDSC63H3	Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture. Same as MDSC63H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]	ACMB01H3 and [MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]
Corequisite		
Exclusion	MDSC63H3	MDSC63H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available	No	No
Online		

Course: LINB18H3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2016 - Linguistics	2016 - Linguistics
Calendar Title	The Structure of English Words	English Grammar
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Description and analysis of the structure of English words, including the sound and word structure systems, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.	Description and analysis of the structure of English, including the sentence and word structure systems, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite		
Exclusion	LIN203H	LIN204H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: LIND07Y3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2016 - Linguistics	2016 - Linguistics
Calendar Title	Independent Studies in Linguistics	Independent Study in Linguistics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Associate Director for further information.	A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Associate Director for further information.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	At least 1.0 credit at the C-level in LIN courses and permission of the Linguistics Associate Director	At least 1.0 credit at the C-level in LIN courses and permission of the Linguistics Associate Director
Corequisite		
Exclusion	LIN495Y	LIN495Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available	No	No
Online		

Course: MATA30H3 - Compare

Owning Organizations	MAT,MSCSC	MAT,MSCSC
Sections	2016 - Mathematics	2016 - Mathematics
Calendar Title	Calculus I for Biological and Physical Sciences	Calculus I for Physical Sciences
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the basic techniques of Calculus. Elementary functions: rational, trigonometric, root, exponential and logarithmic functions and their graphs. Basic calculus: limits, continuity, derivatives, derivatives of higher order, analysis of graphs, use of derivatives; integrals and their applications.	An introduction to the basic techniques of Calculus. Elementary functions: rational, trigonometric, root, exponential and logarithmic functions and their graphs. Basic calculus: limits, continuity, derivatives, derivatives of higher order, analysis of graphs, use of derivatives; integrals and their applications.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Grade 12 Calculus and Vectors	Grade 12 Calculus and Vectors
Corequisite		
Exclusion	(MATA20H3), (MATA27H3), MATA31H3 , MATA32H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y	(MATA20H3), (MATA27H3), MATA31H3 , MATA32H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MATA31H3 - Compare

Owning Organizations	MAT, MSCSC	MAT, MSCSC
Sections	2016 - Mathematics	2016 - Mathematics
Calendar Title	Calculus I for Mathematical Sciences	Calculus I for Mathematical Sciences
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Basic techniques of Calculus. Elementary functions including exponential, logarithm and trigonometric functions; limits and continuity; differentiation; indeterminate forms and L'Hopital's rule; optimization and other applications of derivatives; Riemann sums and integration; techniques of integration; improper integrals, applications of integration including areas, volumes, and arc length.	A conceptual introduction to Differential Calculus of algebraic and transcendental functions of one variable; focus on logical reasoning and fundamental notions; first introduction into a rigorous mathematical theory with applications. Course covers: real numbers, set operations, supremum, infimum, limits, continuity, Intermediate Value Theorem, derivative, differentiability, related rates, Fermat's, Extreme Value, Rolle's and Mean Value Theorems, curve sketching, optimization, and antiderivatives.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	Grade 12 Calculus and Vectors	Grade 12 Calculus and Vectors
Corequisite		
Exclusion	(MATA20H3), (MATA27H3), MATA30H3 , MATA32H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y	(MATA20H3), (MATA27H3), MATA30H3 , MATA32H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Recommended Preparation		
Enrolment Limits		
Note		

**Instructor
Hours
Available
Online**

No

No

Course: MATA37H3 - Compare

Owning Organizations	MAT, MSCSC	MAT, MSCSC
Sections	2016 - Mathematics	2016 - Mathematics
Calendar Title	Calculus II for Mathematical Sciences	Calculus II for Mathematical Sciences
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A theoretical course in calculus emphasizing proofs and techniques, as well as the intuition behind them. Axioms and basic properties of real numbers; theorems concerning differentiation and integration; fundamental theorem of calculus; numerical integration; sequences and series; Taylor polynomials and remainder; uniform convergence and power series.	A rigorous introduction to Integral Calculus of one variable and infinite series; strong emphasis on combining theory and applications; further developing of tools for mathematical analysis. Riemann Sum, definite integral, Fundamental Theorem of Calculus, techniques of integration, improper integrals, numerical integration, sequences and series, absolute and conditional convergence of series, convergence tests for series, Taylor polynomials and series, power series and applications.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MATA31H3 and [MATA67H3 or CSCA67H3]	MATA31H3 and [MATA67H3 or CSCA67H3]
Corequisite		
Exclusion	(MATA21H3), MATA33H3 , MATA35H3 , MATA36H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y	(MATA21H3), MATA33H3 , MATA35H3 , MATA36H3 , MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Recommended Preparation		
Enrolment Limits		
Note		

**Instructor
Hours
Available
Online**

No

No

Course: MDSC01H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Theories in Media Studies	Theories in Media Studies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This is an advanced seminar for third and fourth year students on theories applied to the study of media.	This is an advanced seminar for third and fourth year students on theories applied to the study of media.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	2.0 credits at the B-level in MDS courses	ACMB01H3 and 2.0 credits at the B-level in MDS courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MDSC02H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Media, Identities and Politics	Media, Identities and Politics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the centrality of mass media such as television, film, the Web, and mobile media in the formation of multiple identities and the role of media as focal points for various cultural and political contestations.	This course explores the centrality of mass media such as television, film, the Web, and mobile media in the formation of multiple identities and the role of media as focal points for various cultural and political contestations.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	2.0 credits at the B-level in MDS courses	ACMB01H3 and 2.0 credits at the B-level in MDS courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MDSC40H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Chinese Media and Politics	Chinese Media and Politics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the complex and dynamic interplay of media and politics in contemporary China and the role of the government in this process. Same as GASC40H3	This course examines the complex and dynamic interplay of media and politics in contemporary China and the role of the government in this process. Same as GASC40H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	4.0 credits including (HUMA01H3) or ACMA01H3	4.0 credits including ACMB01H3
Corequisite		
Exclusion	GASC40H3	GASC40H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MDSC41H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Media and Popular Culture in East and Southeast Asia	Media and Popular Culture in East Asia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to media industries and commercial popular cultural forms in East and Southeast Asia. Topics include reality TV, TV dramas, anime and manga, as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in Asia. Same as GASC41H3 and (IEEC21H3)	This course introduces students to media industries and commercial popular cultural forms in East Asia. Topics include reality TV, TV dramas, anime and manga, as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in East Asia. Same as GASC41H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	4.0 credits including [(HUMA01H3) or ACMA01H3]	4.0 credits including ACMB01H3
Corequisite		
Exclusion	GASC41H3, (IEEC21H3)	GASC41H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC53H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Anthropology of Media and Publics	Anthropology of Media and Publics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How do media work to circulate texts, images, and stories? Do media create unified publics? How is the communicative process of media culturally-distinct? This course examines how anthropologists have studied communication that occurs through traditional and new media. Ethnographic examples drawn from several contexts. Same as ANTC53H3	How do media work to circulate texts, images, and stories? Do media create unified publics? How is the communicative process of media culturally-distinct? This course examines how anthropologists have studied communication that occurs through traditional and new media. Ethnographic examples drawn from several contexts. Same as ANTC53H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3]	[ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3] and ACMB01H3
Corequisite		
Exclusion	ANTC53H3	ANTC53H3
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC61H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Alternative Media	Alternative Media
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the history, organization and social role of a range of independent, progressive, and oppositional media practices. It emphasizes the ways alternative media practices, including the digital, are the product of and contribute to political movements and perspectives that challenge the status quo of mainstream consumerist ideologies.	This course examines the history, organization and social role of a range of independent, progressive, and oppositional media practices. It emphasizes the ways alternative media practices, including the digital, are the product of and contribute to political movements and perspectives that challenge the status quo of mainstream consumerist ideologies.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses]	ACMB01H3 and [(2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MDSC62H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Media and the World of Work	Media and the World of Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context. Same as JOUC62H3	The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context. Same as JOUC62H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]	[ACMB01H3 and [MDSA01H3 and MDSB05H3]] or [JOUA01H3 and JOUA02H3]
Corequisite		
Exclusion	JOUC62H3	JOUC62H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC63H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Media Ethics	Media Ethics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture. Same as JOUC63H3	Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture. Same as JOUC63H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]	ACMB01H3 and [MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]
Corequisite		
Exclusion	JOUC63H3	JOUC63H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MDSC64H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Film and Technology	Media and Technology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	From the first depiction of a cyborg in <i>Metropolis</i> (1927) to the Web-based surveillance devices of <i>Minority Report</i> (2002), film is central to organizing cultural discourse around new media and technology. This course examines how the popularization of both real and imagined technologies in various films contributes to cultural attitudes that attend the introduction and social diffusion of new technologies.	Media are central to organizing cultural discourse about technology and the future. This course examines how the popularization of both real and imagined technologies in various media forms contribute to cultural attitudes that attend the introduction and social diffusion of new technologies.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	2.0 credits at the B-level in MDS courses	ACMB01H3 and 2.0 credits at the B-level in MDS courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC65H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Online Games and Virtual Worlds	Online Games and Virtual Worlds
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to the academic study of online games and virtual worlds. Students develop critical awareness and understanding of immersive virtual technologies and their implications for social, cultural, political and economic life. Classes will be conducted in the UTSC Innovation Media Lab, a virtual world and learning environment.	This course introduces students to the academic study of online games and virtual worlds. Students develop critical awareness and understanding of immersive virtual technologies and their implications for social, cultural, political and economic life. Classes will be conducted in the UTSC Innovation Media Lab, a virtual world and learning environment.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	2.0 credits at the B-level in MDS courses;	ACMB01H3 and 2.0 credits at the B-level in MDS courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC71H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Media and Religion	Media and Religion
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The advancement of religious concepts and movements has consistently been facilitated - and contested - by contemporaneous media forms, and this course considers the role of media in the creation, development, and transmission of religion(s), as well as the challenges posed to modern religiosities in a digital era.	The advancement of religious concepts and movements has consistently been facilitated - and contested - by contemporaneous media forms, and this course considers the role of media in the creation, development, and transmission of religion(s), as well as the challenges posed to modern religiosities in a digital era.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	2.0 credits at the B-level in MDS courses	<u>ACMB01H3</u> and 2.0 credits at the B-level in MDS courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC85H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2016 - Media Studies	2016 - Media Studies
Calendar Title	Movies, Music and Meaning	Movies, Music and Meaning
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon. Same as VPMC85H3	This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon. Same as VPMC85H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in VPM courses]	ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in VPM courses]]
Corequisite		
Exclusion	VPMC85H3	VPMC85H3
Recommended Preparation		
Enrolment Limits	50	50
Note	No specialist knowledge in musicology or film studies required.	No specialist knowledge in musicology or film studies required.
Instructor Hours		

**Available
Online**

No

No

Course: MGAB01H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Introductory Financial Accounting I	Introductory Financial Accounting I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Together with MGAB02H3/(MGTB06H3), this course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques. The preparation of financial statements is addressed from the point of view of both preparers and users of financial information.	Together with MGAB02H3/(MGTB06H3), this course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques. The preparation of financial statements is addressed from the point of view of both preparers and users of financial information.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite	MGTA05H3	
Exclusion	(MGTB05H3), VPAB13H3 , MGT120H, MGT201H, MGT220H, RSM219H, RSM220H	(MGTB05H3), VPAB13H3 , MGT120H, MGT201H, MGT220H, RSM219H, RSM220H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGAC10H3 - Compare

Course Code	<u>MGAD10H3</u>	<u>MGAC10H3</u>
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Auditing	Auditing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor.	An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGAC01H3 /(MGTC07H3)	MGAC01H3 /(MGTC07H3)
Corequisite		
Exclusion	(MGTD60H3)	<u>(MGAD10H3)</u> , (MGTD60H3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor		
Hours Available	No	No
Online		

Course: MGAD20H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Advanced Auditing	Advanced Auditing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An extension of the study of areas covered in the introductory audit course and will include the application of risk and materiality to more advanced topic areas such as pension and comprehensive auditing. Other topics include special reports, future oriented financial information and prospectuses. This will include a review of current developments and literature.	An extension of the study of areas covered in the introductory audit course and will include the application of risk and materiality to more advanced topic areas such as pension and comprehensive auditing. Other topics include special reports, future oriented financial information and prospectuses. This will include a review of current developments and literature.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGAD10H3/(MGTD60H3)	MGAC10H3 /(MGAD10H3)/(MGTD60H3)
Corequisite		
Exclusion	(MGTD61H3)	(MGTD61H3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGAD45H3 - Compare

Course Code	MGAC40H3	MGAD45H3
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Corporate Governance	Corporate Governance and Strategy: CPA Perspective
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines issues in Corporate Governance in today's business environment. Through case studies of corporate "ethical scandals", students will consider workplace ethical risks, opportunities and legal issues. Students will also examine professional accounting in the public interest as well as accounting and planning for sustainability.	This course examines issues in Corporate Governance in today's business environment. Through case studies of corporate "ethical scandals", students will consider workplace ethical risks, opportunities and legal issues. Students will also examine professional accounting in the public interest as well as accounting and planning for sustainability.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGAB01H3 and MGAB02H3	MGAC01H3 and MGSC30H3
Corequisite	MGSC30H3	MGSC30H3
Exclusion		(MGSC40H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGAD65H3 - Compare

Course Code	<u>MGAC65H3</u>	<u>MGAD65H3</u>
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Canadian Income Taxation II	Canadian Income Taxation II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate re-organizations, partnerships, trusts, and individual and corporate tax planning.	This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate re-organizations, partnerships, trusts, and individual and corporate tax planning.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGAC50H3 /(MGTC16H3)	MGAC50H3 /(MGTC16H3)
Corequisite		
Exclusion	(MGTC17H3), MGT429H, RSM424H	<u>(MGAC60H3)</u> , (MGTC17H3), MGT429H, RSM424H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGAD70H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Advanced Accounting Case Analysis	Advanced Accounting Case Analysis: A Capstone Course
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This capstone case analysis course stresses the critical thinking skills required of Management program graduates. Due to its integrative nature, with emphasis on current accounting issues, the course is primarily directed towards accounting students. And it should be taken among the last five credits of an accounting specialist degree. Cases will strategically include the specific competency areas outlined in the CPA's Candidates Competency Map.	A capstone case course integrating critical thinking, problem solving, professional judgement and ethics. Business simulations will strategically include the specific technical competency areas and the enabling skills of the CPA Competency Map. This course should be taken as part of the last 5.0 credits of the Specialist/Specialist Co-op in Management and Accounting.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGAC01H3 /(MGTC07H3) and MGAC02H3 /(MGTC08H3)	MGAC01H3 /(MGTC07H3) and MGAC02H3 /(MGTC08H3)
Corequisite		MGAD20H3
Exclusion	(MGTD56H3)	(MGTD56H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		

**Available
Online**

No

No

Course: MGEC54H3 - Compare

Owning Organizations	ECM, MGTEC	ECM, MGTEC
Sections	2016 - Economics for Management Studies	2016 - Economics for Management Studies
Calendar Title	Economics of the Family	Economics of Education and the Family
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course studies the economic aspects of how families make decisions about employment, child care, and having children. In particular, we study how women's decisions are affected by children and the need to care for them. We study how public policies affect the decisions of family members, and discuss how family policy can be improved.	This course studies the economic aspects of how families make decisions about education, training, employment, child care, and having children. In particular, we study how women's decisions are affected by children and the need to care for them. We study how public policies regarding childcare, training, and education affect the decisions of family members, and discuss how these policies can be improved.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGEB02H3 /(ECMB02H3)	MGEB02H3 /(ECMB02H3)
Corequisite		
Exclusion	(ECMC54H3), ECO332H	(ECMC54H3), ECO332H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGED43H3 - Compare

Course Code	MGEC43H3	MGED43H3
Owning Organizations	ECM,MGTEC	ECM,MGTEC
Sections	2016 - Economics for Management Studies	2016 - Economics for Management Studies
Calendar Title	Organization Strategies	Organization Strategies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Explores the issue of outsourcing, and broadly defines which activities should a firm do "in-house" and which should it take outside? Using a combination of cases and economic analysis, it develops a framework for determining the "best" firm organization.	Explores the issue of outsourcing, and broadly defines which activities should a firm do "in-house" and which should it take outside? Using a combination of cases and economic analysis, it develops a framework for determining the "best" firm organization.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGEB02H3 /(ECMB02H3) and [MGEC40H3] /(ECMC40H3) or MGEC41H3 /(ECMC41H3)]	MGEB02H3 /(ECMB02H3) and [MGEC40H3] /(ECMC40H3) or MGEC41H3 /(ECMC41H3)]
Corequisite		
Exclusion	(ECMC43H3), RSM481H, (MGT481H)	(MGEC43H3) , (ECMC43H3), RSM481H, (MGT481H)
Recommended Preparation		
Enrolment Limits	60	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGF15H3 - Compare

Owning Organizations	MGT, MGTEC	MGT, MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Private Equity	Special Topics in Finance: Private Equity
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the private equity asset class and the private equity acquisition process. It covers both the academic and practical components of private equity investing, including: deal sourcing, financial modelling and valuations, transaction structuring, financing, diligence, negotiations, post transaction corporate strategy and governance.	This course explores the private equity asset class and the private equity acquisition process. It covers both the academic and practical components of private equity investing, including: deal sourcing, financial modelling and valuations, transaction structuring, financing, diligence, negotiations, post transaction corporate strategy and governance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGAB02H3 /(MGTB06H3) and MGFC10H3 /(MGTC09H3)	MGAB02H3 /(MGTB06H3) and MGFC10H3 /(MGTC09H3)
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGF40H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Investor Psychology and Behavioural Finance	Investor Psychology and Behavioural Finance
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to help students understand how different psychological biases can affect investor behaviours and lead to systematic mispricing in the financial market. With simulated trading games, students will learn and practice various trading strategies to take advantage of these market anomalies.	This course is designed to help students understand how different psychological biases can affect investor behaviours and lead to systematic mispricing in the financial market. With simulated trading games, students will learn and practice various trading strategies to take advantage of these market anomalies.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGFC10H3 /(MGTC09H3) and MGE12H3 /(ECMB12H3)	MGFC10H3 /(MGTC09H3) and MGE12H3 /(ECMB12H3)
Corequisite		
Exclusion	(MGTD73H3), MGT430H	(MGTD73H3), MGT430H
Recommended Preparation		
Enrolment Limits	40	30
Note		
Instructor		
Hours		
Available Online	No	No

Course: MGHB12H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Human Resource Management	Human Resource Management
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to current human resource practices in Canada, emphasizing the role of Human Resource Management in enhancing performance, productivity and profitability of the organization. Topics include recruitment, selection, training, career planning and development, diversity and human rights issues in the work place.	An introduction to current human resource practices in Canada, emphasizing the role of Human Resource Management in enhancing performance, productivity and profitability of the organization. Topics include recruitment, selection, training, career planning and development, diversity and human rights issues in the work place.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)	MGHB02H3 or or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Corequisite		
Exclusion	MGIB12H3 /(MGTB22H3), (MGTC22H3), MGT460H, RSM460H	MGIB12H3 /(MGTB22H3), (MGTC22H3), MGT460H, RSM460H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGHC02H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Management Skills	Management Skills
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will help students develop the critical skills required by today's managers. Topics covered include self-awareness, managing stress and conflict, using power and influence, negotiation, goal setting, and problem-solving. These skills are important for leadership and will enable students to behave more effectively in their working and personal lives.	This course will help students develop the critical skills required by today's managers. Topics covered include self-awareness, managing stress and conflict, using power and influence, negotiation, goal setting, and problem-solving. These skills are important for leadership and will enable students to behave more effectively in their working and personal lives.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGHB02H3 or (MGTB23H3)	MGHB02H3 or MGIB02H3 or (MGTB23H3)
Corequisite		
Exclusion	(MGTC24H3), (MGTC90H3), MGIC02H3 /(MGTC91H3)	(MGTC24H3), (MGTC90H3), MGIC02H3 /(MGTC91H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGHC23H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Diversity in the Workplace	Diversity in the Workplace
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines the nature and effects of diversity in the workplace. Drawing on theories and research from psychology, the course will examine topics like stereotyping, harassment, discrimination, organizational climate for diversity, conflict resolution within diverse teams, and marketing to a diverse clientele.	Examines the nature and effects of diversity in the workplace. Drawing on theories and research from psychology, the course will examine topics like stereotyping, harassment, discrimination, organizational climate for diversity, conflict resolution within diverse teams, and marketing to a diverse clientele.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGHB02H3 or (MGTB23H3) or (MGTB27Y3)	MGHB02H3 or MGIB02H3 or (MGTB23H3) or (MGTB27Y3)
Corequisite		
Exclusion	(MGTC23H3)	(MGTC23H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours Available Online	No	No

Course: MGHC52H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Business Negotiation	Business Negotiation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the theory and practice of negotiation in business. This course develops approaches and tactics to use in different forums of negotiation, and an introduction to traditional and emerging procedures for resolving disputes. To gain practical experience, students will participate in exercises which simulate negotiations.	An introduction to the theory and practice of negotiation in business. This course develops approaches and tactics to use in different forums of negotiation, and an introduction to traditional and emerging procedures for resolving disputes. To gain practical experience, students will participate in exercises which simulate negotiations.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)	MGHB02H3 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Corequisite		
Exclusion	(MGTC52H3)	(MGTC52H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGHD14H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Leadership	Leadership
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This advanced leadership seminar builds on MGHC02H3/(MGTC90H3) Management Skills, focusing on leadership theories and practices. Through case studies, skill-building exercises, and world-class research, students will learn critical leadership theories and concepts while gaining an understanding of how effective leaders initiate and sustain change at the individual and corporate levels, allowing each student to harness their full leadership potential.	This advanced leadership seminar builds on MGHC02H3/(MGTC90H3) Management Skills, focusing on leadership theories and practices. Through case studies, skill-building exercises, and world-class research, students will learn critical leadership theories and concepts while gaining an understanding of how effective leaders initiate and sustain change at the individual and corporate levels, allowing each student to harness their full leadership potential.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] and [(MGTB24H3) or MGHC02H3 /(MGTC90H3)]	[MGHB02H3 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] or MGHC02H3 /(MGTC90H3) or MGIC02H3
Corequisite		
Exclusion	(MGTD14H3)	(MGTD14H3)
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		

**Available
Online**

No

No

Course: MGHD24H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Occupational Health and Safety Management	Occupational Health and Safety Management
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Occupational health and safety is a management function, however, many managers are not prepared for this role when they arrive in their first jobs. This course will consider the physical, psychological, social, and legal environments relevant to health and safety in the workplace.	Occupational health and safety is a management function, however, many managers are not prepared for this role when they arrive in their first jobs. This course will consider the physical, psychological, social, and legal environments relevant to health and safety in the workplace.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGHB12H3 /(MGTC22H3)	MGHB12H3 /(MGTC22H3) or MGIB12H3
Corequisite		
Exclusion	(MGTD24H3)	(MGTD24H3)
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: MGHD25H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Human Resources Recruitment and Selection	Human Resources Recruitment and Selection
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An in-depth look at recruitment and selection practices in organizations. Students will learn about organizational recruitment strategies, the legal issues surrounding recruitment and selection, how to screen job applicants, and the role of employee testing and employee interviews in making selection decisions.	An in-depth look at recruitment and selection practices in organizations. Students will learn about organizational recruitment strategies, the legal issues surrounding recruitment and selection, how to screen job applicants, and the role of employee testing and employee interviews in making selection decisions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGHB12H3 /(MGTC22H3)	MGHB12H3 /(MGTC22H3) or MGIB12H3
Corequisite		
Exclusion	(MGTD25H3)	(MGTD25H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGHD26H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Training and Development	Training and Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to teach students about the training and development process. Topics include how training and development fits within the larger organizational context as well as learning, needs analysis, the design and delivery of training programs, on and off-the-job training methods, the transfer of training, and training evaluation.	This course is designed to teach students about the training and development process. Topics include how training and development fits within the larger organizational context as well as learning, needs analysis, the design and delivery of training programs, on and off-the-job training methods, the transfer of training, and training evaluation.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGHB12H3 /(MGTC22H3)	MGHB12H3 /(MGTC22H3) or MGIB12H3
Corequisite		
Exclusion	(MGTD26H3)	(MGTD26H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGHD27H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Human Resources Planning and Strategy	Human Resources Planning and Strategy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to provide students with an understanding of strategic human resources management and the human resource planning process. Students will learn how to forecast, design, and develop human resource plans and requirements using both qualitative and quantitative techniques.	This course is designed to provide students with an understanding of strategic human resources management and the human resource planning process. Students will learn how to forecast, design, and develop human resource plans and requirements using both qualitative and quantitative techniques.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGHB12H3 /(MGTC22H3)	MGHB12H3 /(MGTC22H3) or MGIB12H3
Corequisite		
Exclusion	(MGTD27H3)	(MGTD27H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGHD28H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Compensation	Compensation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to provide students with an understanding of compensation programs and systems. Students will learn how to design and manage compensation and benefit programs; individual and group reward and incentive plans; and how to evaluate jobs and assess employee performance.	This course is designed to provide students with an understanding of compensation programs and systems. Students will learn how to design and manage compensation and benefit programs; individual and group reward and incentive plans; and how to evaluate jobs and assess employee performance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGHB12H3 /(MGTC22H3)	MGHB12H3 /(MGTC22H3) or MGIB12H3
Corequisite		
Exclusion	(MGTD28H3)	(MGTD28H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours		
Available Online	No	No

Course: MGIC02H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	International Leadership Skills	International Leadership Skills
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Leaders who work internationally must learn how to customize their leadership competencies to the different cultures in which they practice. By using role plays, simulations, cases, and class discussions, students will develop the culturally appropriate leadership skills of articulating a vision, planning and implementing goals, negotiation, and providing effective feedback.	Leaders who work internationally must learn how to customize their leadership competencies to the different cultures in which they practice. By using role plays, simulations, cases, and class discussions, students will develop the culturally appropriate leadership skills of articulating a vision, planning and implementing goals, negotiation, and providing effective feedback.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[MGTA01H3 /(MGTA03H3) and MGTA02H3 /(MGTA04H3)] or MGTA05H3] and MGIB02H3 /(MGTB25H3)	[[MGTA01H3 /(MGTA03H3) and MGTA02H3 /(MGTA04H3)] or MGTA05H3] and MGIB02H3 /(MGTB25H3)
Corequisite		
Exclusion	(MGTC91H3), (MGTB90H3) , (MGTC24H3), MGHC02H3 /(MGTC90H3)	(MGTC91H3), MGHC02H3 /(MGTC90H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor Hours Available Online	No	No

Course: MGMA01H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Principles of Marketing	Principles of Marketing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The topics include an examination of buyer behaviour, market segmentation; the basic elements of the marketing mix. Enrolment is limited to students registered in Programs requiring this course.	An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The topics include an examination of buyer behaviour, market segmentation; the basic elements of the marketing mix. Enrolment is limited to students registered in Programs requiring this course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[MGTA01H3 /(MGTA03H3) and MGTA02H3 /(MGTA04H3)] or MGTA05H3	[MGTA01H3 /(MGTA03H3) and MGTA02H3 /(MGTA04H3)]
Corequisite		MGTA05H3
Exclusion	(MGTB04H3), MGIA01H3 /(MGTB07H3), (MGT252H), RSM250H	(MGTB04H3), MGIA01H3 /(MGTB07H3), (MGT252H), RSM250H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours Available Online	No	No

Course: MGMC12H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Advertising: From Theory to Practice	Advertising: From Theory to Practice
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the basic communication tools used in planning, implementing and evaluating promotional strategies .The course reviews basic findings of the behavioural sciences dealing with perception, personality, psychological appeals, and their application to advertising as persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, audio-visual programs and guest speakers from the local advertising industry.	An introduction to the basic communication tools used in planning, implementing and evaluating promotional strategies .The course reviews basic findings of the behavioural sciences dealing with perception, personality, psychological appeals, and their application to advertising as persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, audio-visual programs and guest speakers from the local advertising industry.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGTA01H3 /(MGTA03H3) and MGTA02H3 /(MGTA04H3) and MGMA01H3 /(MGTB04H3) or MGIA01H3 /(MGTB07H3)	MGMA01H3 /(MGTB04H3) or MGIA01H3 /(MGTB07H3)
Corequisite		
Exclusion	(MGTC12H3), (MGTD12H3)	(MGTC12H3), (MGTD12H3)
Recommended Preparation		
Enrolment Limits	40	40
Note		
Instructor		

Hours

Available

Online

No

No

Course: MGSC12H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Narrative and Management	Narrative and Management
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Through the analysis of fiction and non-fiction narratives, particularly film, dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face.	Through the analysis of fiction and non-fiction narratives, particularly film, dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) or ENGD94H3	MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) or [2.0 credits at the C-level in POL courses] or ENGD94H3
Corequisite		
Exclusion	(MGTC35H3)	(MGTC35H3)
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		
Available Online	No	No

Course: MGSC20H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	New Ways of Work: Consulting, Contracting & Freelancing	Consulting and Contracting: New Ways of Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Tomorrow's graduates will enjoy less career stability than previous generations. Technology and demography are changing the nature of work. Instead of having secure progressive careers, you will work on contract or as consultants. You will need to think, and act like entrepreneurs. This course examines why and how.	Tomorrow's graduates will enjoy less career stability than previous generations. Technology and demography are changing the nature of work. Instead of having secure progressive careers, you will work on contract or as consultants. You will need to think, and act like entrepreneurs. This course examines why and how.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGAB03H3 /(MGTB03H3) and [MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]	MGAB03H3 /(MGTB03H3) and [MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
Corequisite		
Exclusion	(MGTC19H3)	(MGTC19H3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGTA01H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Introduction to Management I	Introduction to Business
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course serves as an introduction to the process of management, including planning, organizing and the role of management within the broader business community.	This course serves as an introduction to the process of management, including planning, organizing and the role of management within the broader business community.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite		
Exclusion	(MGTA03H3), (COM110H), MGM101H, RSM100Y	MGTA05H3 , (MGTA03H3), (COM110H), MGM101H, RSM100Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MGTA02H3 - Compare

Owning Organizations	MGT, MGTEC	MGT, MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Introduction to Management II	Managing the Business Organization
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course serves as an introduction to the functional areas of business, including accounting, finance, production and marketing. It builds on the material covered in MGTA01H3/(MGTA03H3).	This course serves as an introduction to the functional areas of business, including accounting, finance, production and marketing. It builds on the material covered in MGTA01H3/(MGTA03H3).
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MGTA01H3 /(MGTA03H3)	MGTA01H3 /(MGTA03H3)
Corequisite		
Exclusion	(MGTA04H3), MGM101H, MGM102H, RSM100Y	MGTA05H3 , (MGTA04H3), MGM101H, MGM102H, RSM100Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MGTB60H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2016 - Management	2016 - Management
Calendar Title	Introduction to the Business of Sports	Introduction to the Business of Sports
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course provides an introductory overview to the business of sport as it has become one of the largest industries in the world. Drawing from relevant theories applied to sports management, the course will incorporate practical case studies, along with critical thinking assignments and guest speakers from the industry.	This course provides an introductory overview to the business of sport as it has become one of the largest industries in the world. Drawing from relevant theories applied to sports management, the course will incorporate practical case studies, along with critical thinking assignments and guest speakers from the industry.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	MGTA05H3 or MGTA01H3 and MGTA01H3	MGTA05H3 or MGTA01H3 and MGTA02H3
Corequisite		
Exclusion	HLTB05H3	HLTB05H3
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: NMEA01H3 - Compare

Owning Organizations	NME,ACMSC	NME,ACMSC
Sections	2016 - New Media Studies	2016 - New Media Studies
Calendar Title	Digital Fundamentals	Digital Fundamentals
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course introduces basic hardware and software for new media. Students will learn basics of HTML (tags, tables and frames) and JavaScript for creation of new media. Discusses hardware requirements including storage components, colour palettes and different types of graphics (bitmap vs. vector-based). Students will be introduced to a variety of software packages used in new media production.</p>	<p>This course introduces basic hardware and software for new media. Students will learn basics of HTML (tags, tables and frames) and JavaScript for creation of new media. Discusses hardware requirements including storage components, colour palettes and different types of graphics (bitmap vs. vector-based). Students will be introduced to a variety of software packages used in new media production. This course is taught at Centennial College.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10 full credits	5.0 credits including MDSA01H3 and MDSA02H3
Corequisite Exclusion	NMEA02H3 , NMEA03H3 , NMEA04H3	NMEA02H3 , NMEA03H3 , NMEA04H3
Recommended Preparation		
Enrolment Limits	35. This course is only open to students registered in the Joint Major Program in New Media.	35. This course is only open to students registered in the Joint Major Program in New Media.
Note		
Instructor Hours		

**Available
Online**

No

No

Course: NMEA02H3 - Compare

Owning Organizations	NME,ACMSC	NME,ACMSC
Sections	2016 - New Media Studies	2016 - New Media Studies
Calendar Title	Introduction to New Media Communications	Introduction to New Media Communications
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course enables students to develop strong written communications skills for effective project proposals and communications, as well as non-linear writing skills that can be applied to a wide range of interactive media projects. The course examines the difference between successful writing for print and for new media, and how to integrate text and visual material.	This course enables students to develop strong written communications skills for effective project proposals and communications, as well as non-linear writing skills that can be applied to a wide range of interactive media projects. The course examines the difference between successful writing for print and for new media, and how to integrate text and visual material. This course is taught at Centennial College.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10 full credits	5.0 credits including MDSA01H3 and MDSA02H3
Corequisite Exclusion	NMEA01H3 , NMEA03H3 , NMEA04H3	NMEA01H3 , NMEA03H3 , NMEA04H3
Recommended Preparation		
Enrolment Limits	35. This course is only open to students registered in the Joint Major Program in New Media.	35. This course is only open to students registered in the Joint Major Program in New Media.
Note		
Instructor Hours		
Available Online	No	No

Course: NMEA03H3 - Compare

Owning Organizations	NME,ACMSC	NME,ACMSC
Sections	2016 - New Media Studies	2016 - New Media Studies
Calendar Title	The Language of Design	The Language of Design
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces the fundamentals of two-dimensional design, graphic design theory, graphic design history, colour principles, typographic principles and visual communication theories applied to New Media Design. Working from basic form generators, typography, two-dimensional design principles, colour and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multi-media.	This course introduces the fundamentals of two-dimensional design, graphic design theory, graphic design history, colour principles, typographic principles and visual communication theories applied to New Media Design. Working from basic form generators, typography, two-dimensional design principles, colour and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multi-media. This course is taught at Centennial College.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10 full credits	10 full credits
Corequisite	NMEA01H3 , NMEA02H3 , NMEA04H3	5.0 credits including MDSA01H3 and MDSA02H3
Exclusion		
Recommended Preparation		
Enrolment Limits	35. This course is only open to students registered in the Joint Major Program in New Media.	35. This course is only open to students registered in the Joint Major Program in New Media.
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: NMEA04H3 - Compare

Owning Organizations	NME,ACMSC	NME,ACMSC
Sections	2016 - New Media Studies	2016 - New Media Studies
Calendar Title	Interface Design, Navigation and Interaction I	Interface Design, Navigation and Interaction I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to the discipline of user interface and software design, and in particular their impact and importance in the world of new media. The course uses theory and research in combination with practical application, to bring a user-centred design perspective to developing new media software.	This course introduces students to the discipline of user interface and software design, and in particular their impact and importance in the world of new media. The course uses theory and research in combination with practical application, to bring a user-centred design perspective to developing new media software. This course is taught at Centennial College.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10 full credits	5.0 credits including MDSA01H3 and MDSA02H3
Corequisite Exclusion	NMEA01H3 , NMEA02H3 , NMEA03H3	NMEA01H3 , NMEA02H3 , NMEA03H3
Recommended Preparation		
Enrolment Limits	35. This course is only open to students registered in the Joint Major Program in New Media.	35. This course is only open to students registered in the Joint Major Program in New Media.
Note		
Instructor Hours		
Available Online	No	No

Course: NROD08H3 - Compare

Owning Organizations	NRO,PSYSC	NRO,PSYSC
Sections	2016 - Neuroscience	2016 - Neuroscience
Calendar Title	Theoretical Neuroscience	Theoretical Neuroscience
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, liquid state-machines and Bayesian optimality. Same as BIOD08H3	A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures , liquid state-machines and Bayesian optimality. Same as BIOD08H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[NROC34H3] or [NROC64H3] or [NROC69H3] and [MATA30H3] or [MATA31H3] and [PSYB07H3] or [STAB22H3]	[NROC34H3] or [NROC64H3] or [NROC69H3] and [MATA29H3] or [MATA31H3] and [PSYB07H3] or [STAB22H3]
Corequisite		
Exclusion	BIOD08H3	BIOD08H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: PHLB12H3 - Compare

Owning Organizations	PHL,PHLSC	PHL,PHLSC
Sections	2016 - Philosophy	2016 - Philosophy
Calendar Title	Philosophy of Human Sexuality	Philosophy of Sexuality
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Philosophical issues about sex and sexual identity in the light of biological, psychological and ethical theories of sex and gender; the concept of gender; male and female sex roles; perverse sex; sexual liberation; love and sexuality.	Philosophical issues about sex and sexual identity in the light of biological, psychological and ethical theories of sex and gender; the concept of gender; male and female sex roles; perverse sex; sexual liberation; love and sexuality.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	PHL243H	PHL243H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: PHLB33H3 - Compare

Owning Organizations	PHL,PHLSC	PHL,PHLSC
Sections	2016 - Philosophy	2016 - Philosophy
Calendar Title	Concepts of God	God, Self, World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	For many philosophers "God" is a central concept because it signifies the fundamental cause of the universe, even Nature as a whole. Is God just this first cause, or also a benevolent agent? Can we have an idea of God? Can we prove the existence of God? Texts by Plato, Aristotle, Anselm, Hobbes, Pascal, Spinoza, Leibniz, Hume, Kant, Nietzsche, Gödel. Recommended preparation: PHLA10H3 or PHLA11H3	For many philosophers "God" is a central concept because it signifies the fundamental cause of the universe, even Nature as a whole. Is God just this first cause, or also a benevolent agent? Can we have an idea of God? Can we prove the existence of God? Texts by Plato, Aristotle, Anselm, Hobbes, Pascal, Spinoza, Leibniz, Hume, Kant, Nietzsche, Gödel. Recommended preparation: PHLA10H3 or PHLA11H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: PHYA11H3 - Compare

Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	2016 - Physics and Astrophysics	2016 - Physics and Astrophysics
Calendar Title	Introduction to Physics IB	Introduction to Physics IB
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This first course in Physics at the university level is intended for students enrolled in the Life sciences. It covers fundamental concepts of classical physics and its applications to macroscopic systems in one and three dimensions. It deals with two main themes; which are Particle and Fluid Mechanics and Waves and Oscillations. The approach will be phenomenological with applications related to life and biological sciences.	This first course in Physics at the university level is intended for students enrolled in the Life sciences. It covers fundamental concepts of classical physics and its applications to macroscopic systems in one and three dimensions. It deals with two main themes; which are Particle and Fluid Mechanics and Waves and Oscillations. The approach will be phenomenological with applications related to life and biological sciences.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Grade 12 Advanced Functions (MHF4U) and Grade 12 Calculus and Vectors (MCV4U)	Grade 12 Advanced Functions (MHF4U) and Grade 12 Calculus and Vectors (MCV4U)
Corequisite	(MATA20H3) or MATA30H3 or MATA31H3	(MATA20H3) or MATA29H3 or MATA30H3 or MATA31H3
Exclusion	PHYA10H3 , PHY131H, PHY135Y, PHY151H, (PHY110Y), (PHY138Y)	PHYA10H3 , PHY131H, PHY135Y, PHY151H, (PHY110Y), (PHY138Y)
Recommended Preparation	Grade 12 Physics (SPH4U)	Grade 12 Physics (SPH4U)
Enrolment Limits		
Note		
Instructor Hours		

**Available
Online**

No

No

Course: PHYA22H3 - Compare

Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	2016 - Physics and Astrophysics	2016 - Physics and Astrophysics
Calendar Title	Introduction to Physics IIB	Introduction to Physics IIB
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course covers the main concepts of Electricity and Magnetism, Optics, and Atomic and Nuclear Physics. It provides basic knowledge of these topics with particular emphasis on its applications in the life sciences. It also covers some of the applications of modern physics such as atomic physics and nuclear radiation.	The course covers the main concepts of Electricity and Magnetism, Optics, and Atomic and Nuclear Physics. It provides basic knowledge of these topics with particular emphasis on its applications in the life sciences. It also covers some of the applications of modern physics such as atomic physics and nuclear radiation.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[PHYA10H3 or PHYA11H3 or (PHYA01H3)] and [MATA30H3 or MATA31H3]	[PHYA10H3 or PHYA11H3 or (PHYA01H3)] and [MATA29H3 or MATA30H3 or MATA31H3]
Corequisite	(MATA21H3) or MATA35H3 or MATA36H3 or MATA37H3 . Note: (MATA21H3) & MATA35H3 do not allow for many future programs in science.	(MATA21H3) or MATA35H3 or MATA36H3 or MATA37H3 . Note: (MATA21H3) & MATA35H3 do not allow for many future programs in science.
Exclusion	PHYA21H3 , (PHY110Y), PHY132H, PHY135Y, (PHY138Y), PHY152H	PHYA21H3 , (PHY110Y), PHY132H, PHY135Y, (PHY138Y), PHY152H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		

**Available
Online**

No

No

Course: PMDB25H3 - Compare

Owning Organizations	BGYSC,PMD	BGYSC,PMD
Sections	2016 - Paramedicine	2016 - Paramedicine
Calendar Title	Therapeutic Communications and Crisis Intervention	Therapeutic Communications and Crisis Intervention
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Focuses on the utilization of effective communication tools when dealing with persons facing health crisis. Students will learn about coping mechanisms utilized by patients and families, and the effects of death and dying on the individual and significant others. Students will have the opportunity to visit or examine community services and do class presentations. This course is taught at the Centennial HP Science and Technology Centre.	Focuses on the utilization of effective communication tools when dealing with persons facing health crisis. Students will learn about coping mechanisms utilized by patients and families, and the effects of death and dying on the individual and significant others. Students will have the opportunity to visit or examine community services and do class presentations. This course is taught at the Centennial HP Science and Technology Centre.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOA01H3 and BIOA02H3	BIOA01H3 and BIOA02H3
Corequisite	PMDB22H3 and PMDB41H3 and PMDB33H3	
Exclusion		
Recommended Preparation		
Enrolment Limits	Enrolment is restricted to students in the Specialist Program in Paramedicine.	Enrolment is restricted to students in the Specialist Program in Paramedicine.
Note		
Instructor Hours		
Available Online	No	No

Course: PMDB33H3 - Compare

Owning Organizations	BGYSC,PMD	BGYSC,PMD
Sections	2016 - Paramedicine	2016 - Paramedicine
Calendar Title	Anatomy	Anatomy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The basic anatomy of all the human body systems will be examined. The focus is on the normal functioning of the anatomy of all body systems and compensatory mechanisms, where applicable, to maintain homeostasis. Specific differences with respect to the pediatric/geriatric client will be highlighted. This course is taught at the Centennial HP Science and Technology Centre.	The basic anatomy of all the human body systems will be examined. The focus is on the normal functioning of the anatomy of all body systems and compensatory mechanisms, where applicable, to maintain homeostasis. Specific differences with respect to the pediatric/geriatric client will be highlighted. This course is taught at the Centennial HP Science and Technology Centre.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	BIOA01H3 and BIOA02H3	BIOA01H3 and BIOA02H3
Corequisite		PMDB22H3
Exclusion	ANA300Y, ANA301H, BIOB33H3 , BGYB33H3	ANA300Y, ANA301H, BIOB33H3
Recommended Preparation		
Enrolment Limits	Restricted to students in the Specialist (Joint) Program in Paramedicine.	Restricted to students in the Specialist (Joint) Program in Paramedicine.
Note		
Instructor Hours		
Available Online	No	No

Course: PMDB36H3 - Compare

Owning Organizations	BGYSC,PMD	BGYSC,PMD
Sections	2016 - Paramedicine	2016 - Paramedicine
Calendar Title	Pharmacology for Allied Health	Pharmacology for Allied Health
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Introduces principles of Pharmacology, essential knowledge for paramedics who are expected to administer medications in Pre-hospital care. Classifications of drugs will be discussed in an organized manner according to their characteristics, purpose, physiologic action, adverse effects, precautions, interactions and Pre-hospital applications. Students will use a step-by-step process to calculate drug dosages. This course is taught at the Centennial HP Science and Technology Centre.	Introduces principles of Pharmacology, essential knowledge for paramedics who are expected to administer medications in Pre-hospital care. Classifications of drugs will be discussed in an organized manner according to their characteristics, purpose, physiologic action, adverse effects, precautions, interactions and Pre-hospital applications. Students will use a step-by-step process to calculate drug dosages. This course is taught at the Centennial HP Science and Technology Centre.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	PMDB22H3 and PMDB25H3 and PMDB41H3 and PMDB33H3	PMDB22H3 and PMDB25H3 and PMDB41H3 and PMDB33H3
Corequisite	PMDB30H3 and PMDB32Y3	
Exclusion		
Recommended Preparation		
Enrolment Limits	Enrolment is limited to students in the Specialist Program in Paramedicine	Enrolment is limited to students in the Specialist Program in Paramedicine
Note		
Instructor Hours		

**Available
Online**

No

No

Course: PMDB41H3 - Compare

Owning Organizations	BGYSC,PMD	BGYSC,PMD
Sections	2016 - Paramedicine	2016 - Paramedicine
Calendar Title	Professional and Legal Issues, Research, Responsibilities and Leadership	Professional and Legal Issues, Research, Responsibilities and Leadership
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Discusses the changing role of the paramedic and introduces the student to the non-technical professional expectations of the profession. Introduces fundamental principles of medical research and professional principles. Topics covered include the role of professional organizations, the role of relevant legislation, the labour/management environment, the field of injury prevention, and basic concepts of medical research. This course is taught at the Centennial HP Science and Technology Centre.	Discusses the changing role of the paramedic and introduces the student to the non-technical professional expectations of the profession. Introduces fundamental principles of medical research and professional principles. Topics covered include the role of professional organizations, the role of relevant legislation, the labour/management environment, the field of injury prevention, and basic concepts of medical research. This course is taught at the Centennial HP Science and Technology Centre.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	BIOA01H3 and BIOA02H3	BIOA01H3 and BIOA02H3
Corequisite	PMDB22H3 and PMDB25H3 and PMDB33H3	
Exclusion		
Recommended Preparation		
Enrolment Limits	Enrolment is restricted to students in the Specialist Program in Paramedicine.	Enrolment is restricted to students in the Specialist Program in Paramedicine.
Note		
Instructor Hours		

**Available
Online**

No

No

Course: POLA01H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	Critical Issues in Politics I	Critical Issues in Politics I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will be introduced to and practice techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.	An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will be introduced to and practice techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	POL101Y, POL115H, POL112H, POL113H, POL114H	POL101Y, POL115H, POL112H, POL113H, POL114H
Recommended Preparation		
Enrolment Limits		
Note		POLA01H3 and POLA02H3 are not sequential courses and can be taken out of order or concurrently.
Instructor		
Hours Available Online	No	No

Course: POLA02H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	Critical Issues in Politics II	Critical Issues in Politics II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will develop techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.	An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will develop techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite		
Exclusion	POL101Y, POL115H, POL112H, POL113H, POL114H	POL101Y, POL115H, POL112H, POL113H, POL114H
Recommended Preparation		
Enrolment Limits		
Note		POLA01H3 and POLA02H3 are not sequential courses and can be taken out of order or concurrently.
Instructor Hours Available Online	No	No

Course: POLC11H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	Applied Statistics for Politics and Public Policy	Applied Statistics for Politics and Public Policy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	In this course, students learn to apply data analysis techniques to examples drawn from political science and public policy. Students will learn to complete original analyses using quantitative techniques commonly employed by political scientists to study public opinion and government policies. Rather than stressing mathematical concepts, the emphasis of the course will be on the application and interpretation of the data as students learn to communicate their results through papers and/or presentations.	In this course, students learn to apply data analysis techniques to examples drawn from political science and public policy. Students will learn to complete original analyses using quantitative techniques commonly employed by political scientists to study public opinion and government policies. Rather than stressing mathematical concepts, the emphasis of the course will be on the application and interpretation of the data as students learn to communicate their results through papers and/or presentations.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	STAB22H3 or equivalent	STAB23H3 or equivalent
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: POLC21H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	Voting and Elections	Voting and Elections
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Why do some citizens vote when others do not? What motivates voters? This course reviews theories of voting behaviour, the social and psychological bases of such behaviour, and how candidate and party campaigns influence the vote. By applying quantitative methods introduced in STAB22 or other courses on statistical methods, students will complete assignments examining voter behaviour in recent Canadian and/or foreign elections using survey data and election returns.</p> <p>Areas of Focus: Canadian Government and Politics; Comparative Politics</p>	<p>Why do some citizens vote when others do not? What motivates voters? This course reviews theories of voting behaviour, the social and psychological bases of such behaviour, and how candidate and party campaigns influence the vote. By applying quantitative methods introduced in STAB23H3 or other courses on statistical methods, students will complete assignments examining voter behaviour in recent Canadian and/or foreign elections using survey data and election returns.</p> <p>Areas of Focus: Canadian Government and Politics; Comparative Politics</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[STAB22H3 or equivalent] or POL242Y	[STAB23H3 or equivalent] or POL242Y
Corequisite		
Exclusion	POL314H, POL314Y	POL314H, POL314Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: POLC68H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	The Constitution of Canada and the Charter of Rights and Freedoms	The Constitution of Canada and the Charter of Rights and Freedoms
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will investigate the development of Canadian constitutional law under the Constitution Act of 1982 and the Charter of Rights and Freedoms. Specific topics include criminal rights, freedom of expression, freedom of religion, equality rights, and aboriginal rights. Areas of Focus: Canadian Government and Politics; Political Theory ; Public Policy	This course will investigate the development of Canadian constitutional law under the Constitution Act of 1982 and the Charter of Rights and Freedoms. Specific topics include criminal rights, freedom of expression, freedom of religion, equality rights, and aboriginal rights. Areas of Focus: Canadian Government and Politics; Public Policy
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[POLB50Y3] or equivalent] or POLB30H3	[POLB50Y3] or equivalent] or POLB30H3
Corequisite		
Exclusion	POL337Y	POL337Y
Recommended Preparation		POLC32H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLD53H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2016 - Political Science	2016 - Political Science
Calendar Title	Political Disagreement in Canada	Political Disagreement in Canada
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Why do Canadians disagree in their opinions about abortion, same-sex marriage, crime and punishment, welfare, taxes, immigration, the environment, religion, and many other subjects? This course examines the major social scientific theories of political disagreement and applies these theories to an analysis of political disagreement in Canada. Area of Focus: Canadian Government and Politics	Why do Canadians disagree in their opinions about abortion, same-sex marriage, crime and punishment, welfare, taxes, immigration, the environment, religion, and many other subjects? This course examines the major social scientific theories of political disagreement and applies these theories to an analysis of political disagreement in Canada. Area of Focus: Canadian Government and Politics
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	[POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL courses]	[POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL courses]
Corequisite		
Exclusion		
Recommended Preparation	STAB22H3 or equivalent	STAB23H3 or equivalent
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: PPGC66H3 - Compare

Owning Organizations	POLSC,PPG	POLSC,PPG
Sections	2016 - Public Policy	2016 - Public Policy
Calendar Title	Public Policy Making	Public Policy Making
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course provides a study of current theories of public policy-making and the processes that are involved in making public policies. Policy processes of agenda setting, choosing governing instruments, making public decisions, and implementing and evaluating governmental programs are examined using specific cases of public policy-making in Canada.</p> <p>Areas of Focus: Canadian Government and Politics; Public Policy</p>	<p>This course provides an introduction to the study of public policy. The course will address theories of how policy is made and the influence of key actors and institutions. Topics include the policy cycle (agenda setting, policy information, decision making, implementation, and evaluation), policy durability and change, and globalization and policy making.</p> <p>Areas of Focus: Public Policy, Comparative Politics, Canadian Government and Politics</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[POLB50Y3 or equivalent] or [1.5 credits at the B-level in CIT courses]	[POLB50Y3 or equivalent] or [1.5 credits at the B-level in CIT courses]
Corequisite		
Exclusion	(POLC66H3)	(POLC66H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: PPGD64H3 - Compare

Owning Organizations	POLSC,PPG	POLSC,PPG
Sections	2016 - Public Policy	2016 - Public Policy
Calendar Title	Comparative Public Policy	Comparative Public Policy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This seminar course explores some of the major approaches to the comparative analysis of public policies of industrialized countries. The course uses a combination of case studies and theoretical literature to examine selected social and economic public policies and policy making in Europe, Canada, and the United States.</p> <p>Areas of Focus: Comparative Politics; Public Policy</p>	<p>This seminar course explores some of the major theoretical approaches to the comparative analysis of public policies across countries. The course explores factors that influence a country's policy making process and why countries' policies diverge or converge. Empirically, the course examines several contemporary issue areas, such as economic, social or environmental policies.</p> <p>Areas of Focus: Comparative Politics; Public Policy</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[POLB50Y3 or equivalent] or [POLB92H3 and (POLB93H3))] and [1.5 credits at the C-level in POL courses]	[[POLB50Y3 or equivalent] or [POLB92H3 and (POLB93H3))] and [1.5 credits at the C-level in POL courses]
Corequisite		
Exclusion	(POLD64H3)	(POLD64H3)
Recommended Preparation	PPGC66H3 and PPGC67H3	PPGC66H3 and PPGC67H3
Enrolment Limits	25	25
Note		
Instructor Hours		

**Available
Online**

No

No

Course: PSCD02H3 - Compare

Owning Organizations	PHSSC,PSC	PHSSC,PSC
Sections	2016 - Physical Sciences	2016 - Physical Sciences
Calendar Title	Current Questions in Mathematics and Science	Current Questions in Mathematics and Science
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Topics of current prominence arising in chemistry, computer science, earth sciences, mathematics and physics will be discussed, usually by faculty or outside guests who are close to the areas of prominence. Topics will vary from year to year as the subject areas evolve.</p> <p>Note: Where PSCD02H3 is a Program requirement, it may be replaced by PHY342H with the approval of the Program supervisor.</p> <p>Prerequisite: Completion of at least 3.5 credits of a Physical Sciences program.</p>	<p>Topics of current prominence arising in chemistry, computer science, earth sciences, mathematics and physics will be discussed, usually by faculty or outside guests who are close to the areas of prominence. Topics will vary from year to year as the subject areas evolve.</p> <p>Prerequisite: Completion of at least 3.5 credits of a Physical Sciences program.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite	Continued participation in one of the Physical Sciences programs.	Continued participation in one of the Physical Sciences programs.
Exclusion	PHY342H	PHY342H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		

**Available
Online**

No

No

Course: PSYB03H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Introduction to Computers in Psychological Research	Introduction to Computers in Psychological Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course will provide introductory knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure and result visualization with the aid of specific programming tools (e.g., Matlab).	The course will provide introductory knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure and result visualization with the aid of specific programming tools (e.g., Matlab).
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	PSYA01H3 and PSYA02H3	PSYA01H3 and PSYA02H3
Corequisite	PSYB07H3	PSYB07H3 or STAB22H3
Exclusion		
Recommended Preparation		
Enrolment Limits	70	70
Note	Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.	Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.
Instructor		

Hours

Available

Online

No

No

Course: PSYB07H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Data Analysis in Psychology	Data Analysis in Psychology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course focuses on the fundamentals of the theory and the application of statistical procedures used in research in the field of psychology. Topics will range from descriptive statistics to simple tests of significance, such as Chi-Square, t-tests, and one-way Analysis-of-Variance. A working knowledge of algebra is assumed. Students in the Specialist programs in Psychology, Psycholinguistics or Neuroscience will be given priority for this course.	This course focuses on the fundamentals of the theory and the application of statistical procedures used in research in the field of psychology. Topics will range from descriptive statistics to simple tests of significance, such as Chi-Square, t-tests, and one-way Analysis-of-Variance. A working knowledge of algebra is assumed. Students in the Specialist programs in Psychology, Psycholinguistics or Neuroscience will be given priority for this course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite		
Exclusion	ANTC35H3 , MGE B11H3 /(ECMB11H3), MGE B12H3 /(ECMB12H3), PSY201H, (SOCB06H3), STAB22H3 , STA220H, STA221H, STA250H, STA257H	ANTC35H3 , MGE B11H3 /(ECMB11H3), MGE B12H3 /(ECMB12H3), PSY201H, (SOCB06H3), STAB22H3 , STAB52H3 , STA220H, STA221H, STA250H, STA257H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: PSYC02H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Scientific Communication in Psychology	Scientific Communication in Psychology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How we communicate in psychology and why. The differences between scientific and non-scientific approaches to behaviour and their implications for communication are discussed. The focus is on improving the student's ability to obtain and organize information and to communicate it clearly and critically, using the conventions of the discipline.	How we communicate in psychology and why. The differences between scientific and non-scientific approaches to behaviour and their implications for communication are discussed. The focus is on improving the student's ability to obtain and organize information and to communicate it clearly and critically, using the conventions of the discipline.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	PSYB01H3 & [PSYB07H3] or (SOCB06H3) or STAB22H3	PSYB01H3 & [PSYB07H3] or (SOCB06H3) or STAB22H3
Corequisite	PSYC08H3	
Exclusion		
Recommended Preparation		
Enrolment Limits	Limited to students in the Specialist Programs in Psychology and in Mental Health Studies.	Limited to students in the Specialist Programs in Psychology and in Mental Health Studies.
Note		
Instructor Hours		
Available Online	No	No

Course: PSYC03H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Computers in Psychological Research: Advanced Topics	Computers in Psychological Research: Advanced Topics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course will provide advanced knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure, and result visualization with the aid of specific programming tools (e.g., Matlab).	The course will provide advanced knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure, and result visualization with the aid of specific programming tools (e.g., Matlab).
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	PSYB07H3 and PSYB03H3	PSYB07H3 or STAB22H3 and PSYB03H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35	35
Note	Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.	Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.
Instructor		

Hours

Available

Online

No

No

Course: PSYC04H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Brain Imaging Laboratory	Brain Imaging Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course introduces brain imaging techniques, focusing on techniques such as high-density electroencephalography (EEG) and transcranial magnetic stimulation (TMS), together with magnet-resonance-imaging-based neuronavigation. Furthermore, the course will introduce eye movement recordings as a behavioural measure often co-registered in imaging studies. Students will learn core principles of experimental designs, data analysis and interpretation in a hands-on manner.	The course introduces brain imaging techniques, focusing on techniques such as high-density electroencephalography (EEG) and transcranial magnetic stimulation (TMS), together with magnet-resonance-imaging-based neuronavigation. Furthermore, the course will introduce eye movement recordings as a behavioural measure often co-registered in imaging studies. Students will learn core principles of experimental designs, data analysis and interpretation in a hands-on manner.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	PSYB01H3 and PSYB07H3	PSYB01H3 and PSYB07H3 or STAB22H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Note		
Instructor		

Hours

Available

Online

No

No

Course: PSYC05H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Human Movement Laboratory	Human Movement Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	In this course students will be introduced to the study of human movement across a range of topics (e.g., eye-movements, balance, and walking), and will have the opportunity to collect and analyze human movement data. Additional topics include basic aspects of experimental designs, data analysis and interpretation of such data.	In this course students will be introduced to the study of human movement across a range of topics (e.g., eye-movements, balance, and walking), and will have the opportunity to collect and analyze human movement data. Additional topics include basic aspects of experimental designs, data analysis and interpretation of such data.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	PSYB01H3 and PSYB07H3	PSYB01H3 and PSYB07H3 or STAB22H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Note		
Instructor Hours		
Available Online	No	No

Course: PSYC06H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Psychophysiology Laboratory	Psychophysiology Laboratory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will provide students with an introduction to physiological processes that are related to psychological processes. Students will gain a theoretical background in psychophysiology as well as read key empirical papers related to the psychological correlates of each physiological system. This course will be a primary methods course for psychology specialists, such that students will acquire advanced skills involved in the acquisition of psychophysiological data and become well-versed in appropriate psychophysiological theory and inference.	This course will provide students with an introduction to physiological processes that are related to psychological processes. Students will gain a theoretical background in psychophysiology as well as read key empirical papers related to the psychological correlates of each physiological system. This course will be a primary methods course for psychology specialists, such that students will acquire advanced skills involved in the acquisition of psychophysiological data and become well-versed in appropriate psychophysiological theory and inference.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	PSYB01H3 and PSYB07H3 and PSYC02H3	PSYB01H3 and PSYB07H3 or STAB22H3 and PSYC02H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.	35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Note		

**Instructor
Hours
Available
Online**

No

No

Course: PSYC62H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Drugs and the Brain	Drugs and the Brain
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of behavioural and neurobiological mechanisms underlying the phenomenon of drug dependence. Topics will include principles of behavioural pharmacology and pharmacokinetics, neurobiological mechanisms of drug action, and psychotropic drug classification. In addition, concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered.	An examination of behavioural and neurobiological mechanisms underlying the phenomenon of drug dependence. Topics will include principles of behavioural pharmacology and pharmacokinetics, neurobiological mechanisms of drug action, and psychotropic drug classification. In addition, concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Natural Sciences	Natural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[PSYB07H3 or its equivalent] and [at least one of PSYB64H3 , PSYB65H3 or NROB60H3] and [one additional B-level or C-level half credit in PSY or NRO]	[PSYB07H3 or STAB22H3] and [at least one of PSYB64H3 , PSYB65H3 or NROB60H3] and [one additional B-level or C-level half credit in PSY or NRO]
Corequisite		
Exclusion	PSY396H, PCL475Y	PSY396H, PCL475Y
Recommended Preparation		
Enrolment Limits	Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies, and Neuroscience. Students in the Specialist program in Integrative Biology will be admitted if space permits.	Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies, and Neuroscience. Students in the Specialist program in Integrative Biology will be admitted if space permits.

Note

Instructor

Hours

Available No

No

Online

Course: PSYD30H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2016 - Psychology	2016 - Psychology
Calendar Title	Current Topics in Personality Psychology	Current Topics in Personality Psychology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An intensive examination of selected issues and research problems in personality psychology. The specific content will vary from year to year.	An intensive examination of selected issues and research problems in personality psychology. The specific content will vary from year to year.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	PSYB30H3 plus one C-level half credit in PSY	PSYB30H3 and PSYC35H3
Corequisite		
Exclusion	PSY430H	PSY430H
Recommended Preparation		
Enrolment Limits	24	24
Note		
Instructor Hours		
Available Online	No	No

Course: SOCB30H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Political Sociology	Political Sociology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of power in its social context. Specific attention is devoted to how and under what conditions power is exercised, reproduced and transformed, as well as the social relations of domination, oppression, resistance and solidarity. Selected topics may include: nations, states, parties, institutions, citizenship, and social movements.	An examination of power in its social context. Specific attention is devoted to how and under what conditions power is exercised, reproduced and transformed, as well as the social relations of domination, oppression, resistance and solidarity. Selected topics may include: nations, states, parties, institutions, citizenship, and social movements.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	SOCA01H3 and SOCA02H3	SOCA01H3 and SOCA02H3
Corequisite		
Exclusion		SOC260H
Recommended Preparation		
Enrolment Limits	170	170
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC04H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Social Movements	Social Movements
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings of movements.	The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings of movements.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation	SOCB22H3 or SOCB49H3	SOCB22H3 or SOCB49H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC09H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Sociology of Gender and Work	Sociology of Gender and Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Explores the interaction of gender and work, both paid and unpaid work. Critically assesses some cases for central theoretical debates and recent research. Considers gender differences in occupational and income attainment, housework, the relation of work and family, gender and class solidarity, and the construction of gender identity through occupational roles.	Explores the interaction of gender and work, both paid and unpaid work. Critically assesses some cases for central theoretical debates and recent research. Considers gender differences in occupational and income attainment, housework, the relation of work and family, gender and class solidarity, and the construction of gender identity through occupational roles.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion	SOC366H	SOC366H
Recommended Preparation	SOCB22H3 or SOCB49H3	SOCB22H3 or SOCB49H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC15H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Work, Employment and Society	Work, Employment and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An upper level course that examines a number of critical issues and important themes in the sociological study of work. Topics covered will include: the changing nature and organization of work, precarious employment, different forms of worker organizing and mobilization, the professions, the transition from school to work.	An upper level course that examines a number of critical issues and important themes in the sociological study of work. Topics covered will include: the changing nature and organization of work, precarious employment, different forms of worker organizing and mobilization, the professions, the transition from school to work.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation	SOCB54H3	SOCB54H3
Enrolment Limits	60	60
Note	Priority will be given to students enrolled in Sociology programs.	Priority will be given to students enrolled in Sociology programs.
Instructor Hours Available Online	No	No

Course: SOCC25H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Ethnicity, Race and Migration	Ethnicity, Race and Migration
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A theoretical and empirical examination of ethnic identity formation, race and racism, and their relationship to international migration.	A theoretical and empirical examination of ethnic identity formation, race and racism, and their relationship to international migration.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Corequisite		
Exclusion		
Recommended Preparation	SOCB22H3 or SOCB49H3	SOCB22H3 or SOCB49H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC26H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Sociology of Urban Cultural Policies	Sociology of Urban Cultural Policies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A popular civic strategy in transforming post-industrial cities has been the deployment of culture and the arts as tools for urban regeneration. In this course, we analyze culture-led development both as political economy and as policy discourse. Topics include the creative city; spectacular consumption spaces; the re-use of historic buildings; cultural clustering and gentrification; eventful cities; and urban 'scenes'.	A popular civic strategy in transforming post-industrial cities has been the deployment of culture and the arts as tools for urban regeneration. In this course, we analyze culture-led development both as political economy and as policy discourse. Topics include the creative city; spectacular consumption spaces; the re-use of historic buildings; cultural clustering and gentrification; eventful cities; and urban 'scenes'.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]
Corequisite		
Exclusion	SOC386Y	SOC386Y
Recommended Preparation	SOCB44H3	SOCB44H3
Enrolment Limits	60	60
Note		

**Instructor
Hours
Available
Online**

No

No

Course: SOCC27H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Sociology of Suburbs and Suburbanization	Sociology of Suburbs and Suburbanization
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the political economy of suburban development, the myth and reality of suburbanism as a way of life, the working class suburb, the increasing diversity of suburban communities, suburbia and social exclusion, and the growth of contemporary suburban forms such as gated communities and lifestyle shopping malls.	This course examines the political economy of suburban development, the myth and reality of suburbanism as a way of life, the working class suburb, the increasing diversity of suburban communities, suburbia and social exclusion, and the growth of contemporary suburban forms such as gated communities and lifestyle shopping malls.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]
Corequisite Exclusion		
Recommended Preparation	SOCB22H3 or SOCB49H3	SOCB22H3 or SOCB49H3
Enrolment Limits	60	60
Note		
Instructor		

Hours

Available

Online

No

No

Course: SOCC29H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Special Topics in Sociology of Family	Special Topics in Sociology of Family
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Sociological analyses of diverse family patterns across historical time and geographic space are offered under this course. Topics covered may include family structure, socialization, marriage, divorce, the gender division of labor, inheritance, and alternative family forms. Special attention is given to sociological theories accounting for dynamics within and across families. Please see the Sociology Department website for a listing of the course topic for current and upcoming semesters.	Sociological analyses of diverse family patterns across historical time and geographic space are offered under this course. Topics covered may include family structure, socialization, marriage, divorce, the gender division of labor, inheritance, and alternative family forms. Special attention is given to sociological theories accounting for dynamics within and across families. Please see the Sociology Department website for a listing of the course topic for current and upcoming semesters.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor		

Hours

Available

Online

No

No

Course: SOCC31H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Practicum in Quantitative Research Methods	Practicum in Quantitative Research Methods
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course provides students with hands-on experience conducting quantitative research. Each student will design and carry out a research project using secondary data. Students will select their own research questions, review the relevant sociological literature, develop a research design, conduct statistical analyses and write up and present their findings.</p> <p>This course has been designated an Applied Writing Skills Course.</p>	<p>This course provides students with hands-on experience conducting quantitative research. Each student will design and carry out a research project using secondary data. Students will select their own research questions, review the relevant sociological literature, develop a research design, conduct statistical analyses and write up and present their findings.</p> <p>This course has been designated an Applied Writing Skills Course.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and STAB22H3 or (SOCB06H3))] and [a cumulative GPA of at least 2.3]	[10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and STAB23H3 or (SOCB06H3))] and [a cumulative GPA of at least 2.3]
Corequisite		
Exclusion	SOC300H, (SOCD31H3)	SOC300H, (SOCD31H3)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: SOCC37H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Environment and Society	Environment and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course links studies in the classical sociology of resources and territory (as in the works of Harold Innis, S.D. Clark, and the Chicago School), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of various social systems to their natural environments.	This course links studies in the classical sociology of resources and territory (as in the works of Harold Innis, S.D. Clark, and the Chicago School), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of various social systems to their natural environments.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [any 8.0 credits and enrolment in the Major/Major Co-op in Public Policy]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [any 8.0 credits and enrolment in the Major/Major Co-op in Public Policy]
Corequisite		
Exclusion	SOC385H	SOC385H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

**Available
Online**

No

No

Course: SOCC38H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Gender and Education	Gender and Education
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of a number of key issues in the sociology of education, focusing particularly upon gender and higher education.	An examination of a number of key issues in the sociology of education, focusing particularly upon gender and higher education.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor		
Hours		
Available Online	No	No

Course: SOCC44H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Media and Society	Media and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Provides an introduction to the emergence, organization and regulation of various media forms; social determinants and effects of media content; responses of media audiences; and other contemporary media issues.	Provides an introduction to the emergence, organization and regulation of various media forms; social determinants and effects of media content; responses of media audiences; and other contemporary media issues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities]
Corequisite		
Exclusion	(SOCB56H3), (SOCB57H3)	(SOCB56H3), (SOCB57H3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC45H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Youth and Society	Youth and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines youth as a social category, a critical stage in the life course. Topics to be covered include: Youth and music, health, work and politics.	This course examines youth as a social category, a critical stage in the life course. Topics to be covered include: Youth and music, health, work and politics.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[SOCC05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB22H3] and [0.5 credit from the following: SOCC30H3 , SOCC42H3 , SOCC43H3 , SOCC47H3 , (SOCC39H3)]	[SOCC05H3] or [(SOCB40H3) and (SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCC30H3 , SOCC42H3 , SOCC43H3 , SOCC47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note	Priority will be given to students enrolled in the Sociology programs.	Priority will be given to students enrolled in the Sociology programs.
Instructor Hours Available Online	No	No

Course: SOCC52H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	International Migration and Immigrant Incorporation	International Migration and Immigrant Incorporation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course provides an overview of competing theories and concepts in the field of international migration and immigrant incorporation. Discussion puts the Canadian case in comparative perspective. Topics include global migration flows, refugeeship, citizenship and non-citizenship, economic incorporation, children of immigrants, and social exclusion.	The course provides an overview of competing theories and concepts in the field of international migration and immigrant incorporation. Discussion puts the Canadian case in comparative perspective. Topics include global migration flows, refugeeship, citizenship and non-citizenship, economic incorporation, children of immigrants, and social exclusion.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[SOCC52H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCC30H3 , SOCC42H3 , SOCC43H3 , SOCC47H3 , (SOCC39H3)]] or [SOCC60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]	[[SOCC52H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCC30H3 , SOCC42H3 , SOCC43H3 , SOCC47H3 , (SOCC39H3)]] or [SOCC60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Corequisite		
Exclusion	(SOCB52H3) and SOC210Y	(SOCB52H3) and SOC210Y
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor		

Hours

Available

Online

No

No

Course: SOCC54H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Special Topics in Sociology of Culture	Special Topics in Sociology of Culture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Sociological analysis of the role of culture in societies is offered under this course. Topics may include the study of material cultures such as works of art, religious symbols, or styles of clothing, or non-material cultures such as the values, norms, rituals, and beliefs that orient action and social life.	Sociological analysis of the role of culture in societies is offered under this course. Topics may include the study of material cultures such as works of art, religious symbols, or styles of clothing, or non-material cultures such as the values, norms, rituals, and beliefs that orient action and social life.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]	[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note	Please see the Sociology Department website at http://www.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.	Please see the Sociology Department website at http://www.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.
Instructor Hours		

**Available
Online**

No

No

Course: SOCC55H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Special Topics in Race and Ethnicity	Special Topics in Race and Ethnicity
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course addresses key concepts and debates in the research on race and ethnicity. Topics covered may include historical and global approaches to: assimilation, ethnic relations, intersectionality, racialization, and scientific racism.	This course addresses key concepts and debates in the research on race and ethnicity. Topics covered may include historical and global approaches to: assimilation, ethnic relations, intersectionality, racialization, and scientific racism.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB22H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]	[[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , (SOCC39H3)]] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note	Please see the Sociology Department website at http://www.uts.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.	Please see the Sociology Department website at http://www.uts.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.
Instructor		

Hours

Available

Online

No

No

Course: SOCD05H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Advanced Seminar in Criminology and Sociology of Law	Advanced Seminar in Criminology and Sociology of Law
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course offers an in-depth examination of selected topics in Criminology and Sociology of Law. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs .	This course offers an in-depth examination of selected topics in Criminology and Sociology of Law. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs .
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	SOCB05H3 and [1.0 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , SOCB50H3 , SOCB51H3 , (SOCC39H3)] and [0.5 credit from the following: SOCC03H3 , SOCC11H3 , SOCC30H3 , SOCC45H3] and [an additional 0.5 credit at the C-level in Sociology]	SOCB05H3 and [1.0 credit from the following: SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3 , SOCB50H3 , SOCB51H3], (SOCC39H3)] and [0.5 credit from the following: SOCC03H3 , SOCC11H3 , SOCC30H3 , SOCC45H3] and [an additional 0.5 credit at the C-level in Sociology]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note	Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.	Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.
Instructor		

Hours

Available

Online

No

No

Course: SOCD40H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Supervised Independent Research	Supervised Independent Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.	Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and STAB22H3 or (SOCB06H3) and SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3 ; and permission of the instructor; and permission of the sociology supervisor of studies.	Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and STAB23H3 or (SOCB06H3) and SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3 ; and permission of the instructor; and permission of the sociology supervisor of studies.
Corequisite		
Exclusion	SOC390Y, SOC391H, SOC392H	SOC390Y, SOC391H, SOC392H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: SOCD41H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Supervised Independent Research	Supervised Independent Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.	Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and STAB22H3 or (SOCB06H3) and SOCB05H3 or ((SOCB40H3) and (SOCB41H3)) and SOCB42H3 and SOCB43H3 ; and permission of the instructor; and permission of the sociology supervisor of studies.	Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and STAB23H3 or (SOCB06H3) and SOCB05H3 or ((SOCB40H3) and (SOCB41H3)) and SOCB42H3 and SOCB43H3 ; and permission of the instructor; and permission of the sociology supervisor of studies.
Corequisite		
Exclusion	SOC390Y, SOC391H, SOC392H	SOC390Y, SOC391H, SOC392H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: SOCD50H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2016 - Sociology	2016 - Sociology
Calendar Title	Research Seminar: Realizing the Sociological Imagination	Research Seminar: Realizing the Sociological Imagination
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course presents students with the opportunity to integrate and apply their sociological knowledge and skills through conducting independent research. In a step-by-step process, each student will design and conduct an original research study. The course is especially suited for those students interested in pursuing graduate studies or professional careers involving research skills.	This course presents students with the opportunity to integrate and apply their sociological knowledge and skills through conducting independent research. In a step-by-step process, each student will design and conduct an original research study. The course is especially suited for those students interested in pursuing graduate studies or professional careers involving research skills.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	12.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and STAB22H3 or (SOCB06H3)] and SOCC23H3 or SOCC31H3] and a cumulative GPA of at least 2.7	12.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and STAB23H3 or (SOCB06H3)] and SOCC23H3 or SOCC31H3] and a cumulative GPA of at least 2.7
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: STAB22H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Statistics I	Statistics I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is a basic introduction to statistical reasoning and methodology, with a minimal amount of mathematics and calculation. The course covers descriptive statistics, populations, sampling, confidence intervals, tests of significance, correlation, regression and experimental design. A computer package is used for calculations.	This course is a basic introduction to statistical reasoning and methodology, with a minimal amount of mathematics and calculation. The course covers descriptive statistics, populations, sampling, confidence intervals, tests of significance, correlation, regression and experimental design. A computer package is used for calculations.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite		
Exclusion	ANTC35H3 , MGE11H3 /(ECMB11H3), (POLB11H3), PSYB07H3 , (SOCB06H3), STAB52H3 , STAB57H3 , STA220H, STA250H	ANTC35H3 , MGE11H3 /(ECMB11H3), (POLB11H3), PSYB07H3 , (SOCB06H3), STAB22H3 , STAB52H3 , STAB57H3 , STA220H, STA250H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: STAB52H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	An Introduction to Probability	An Introduction to Probability
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A mathematical treatment of probability. The topics covered include: the probability model, density and distribution functions, computer generation of random variables, conditional probability, expectation, sampling distributions, weak law of large numbers, central limit theorem, Monte Carlo methods, Markov chains, Poisson processes, simulation, applications. A computer package will be used.	A mathematical treatment of probability. The topics covered include: the probability model, density and distribution functions, computer generation of random variables, conditional probability, expectation, sampling distributions, weak law of large numbers, central limit theorem, Monte Carlo methods, Markov chains, Poisson processes, simulation, applications. A computer package will be used.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	MATA33H3 or MATA36H3 or MATA37H3	MATA33H3 or MATA36H3 or MATA37H3
Corequisite		
Exclusion	STAB22H3 , STA107H, STA257H	PSYB07H3 , STAB22H3 , STA107H, STA257H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: STAC32H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Applications of Statistical Methods	Applications of Statistical Methods
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A case-study based course, aimed at developing students' applied statistical skills beyond the basic techniques. Students will be required to write statistical reports. Statistical software, such as SAS and R, will be taught and used for all statistical analyses.	A case-study based course, aimed at developing students' applied statistical skills beyond the basic techniques. Students will be required to write statistical reports. Statistical software, such as SAS and R, will be taught and used for all statistical analyses.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAB27H3 or STAB57H3 or equivalents.	STAB27H3 or STAB57H3 or MGE12H3 /(ECMB12H3) or PSYC08H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: STAC50H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Data Collection	Data Collection
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The principles of proper collection of data for statistical analysis, and techniques to adjust statistical analyses when these principles cannot be implemented. Topics include: relationships among variables, causal relationships, confounding, random sampling, experimental designs, observational studies, experiments, causal inference, meta-analysis. Statistical analyses using SAS or R.	The principles of proper collection of data for statistical analysis, and techniques to adjust statistical analyses when these principles cannot be implemented. Topics include: relationships among variables, causal relationships, confounding, random sampling, experimental designs, observational studies, experiments, causal inference, meta-analysis. Statistical analyses using SAS or R.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAB27H3 or STAB57H3 or equivalents.	STAB27H3 or STAB57H3 or MGEC12H3/(ECMC12H3) or PSYC08H3.
Corequisite		
Exclusion		STA304H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: STAC51H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Categorical Data Analysis	Categorical Data Analysis
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Statistical models for categorical data. Contingency tables, generalized linear models, logistic regression, multinomial responses, logit models for nominal responses, log-linear models for two-way tables, three-way tables and higher dimensions, models for matched pairs, repeated categorical response data, correlated and clustered responses. Statistical analyses using SAS or R.	Statistical models for categorical data. Contingency tables, generalized linear models, logistic regression, multinomial responses, logit models for nominal responses, log-linear models for two-way tables, three-way tables and higher dimensions, models for matched pairs, repeated categorical response data, correlated and clustered responses. Statistical analyses using SAS or R.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAB27H3 or STAB57H3 or equivalent.	STAB27H3 or STAB57H3 or MGE112H3 or MGE12H3 or ECMB12H3 or PSYC08H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: STAC58H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Statistical Inference	Statistical Inference
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Principles of statistical reasoning and theories of statistical analysis. Topics include: statistical models, likelihood theory, repeated sampling theories of inference, prior elicitation, Bayesian theories of inference, decision theory, asymptotic theory, model checking, and checking for prior-data conflict. Advantages and disadvantages of the different theories.	Principles of statistical reasoning and theories of statistical analysis. Topics include: statistical models, likelihood theory, repeated sampling theories of inference, prior elicitation, Bayesian theories of inference, decision theory, asymptotic theory, model checking, and checking for prior-data conflict. Advantages and disadvantages of the different theories.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAC62H3	STAB57H3 and STAC62H3
Corequisite		
Exclusion	STA352Y, STA422H	STA352Y, STA422H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: STAC63H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Probability Models	Probability Models
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course continues the development of probability theory begun in STAB52H3 . Probability models covered include branching processes, birth and death processes, renewal processes, Poisson processes, queuing theory, random walks and Brownian motion.	This course continues the development of probability theory begun in STAC62H3 . Probability models covered include branching processes, birth and death processes, renewal processes, Poisson processes, queuing theory, random walks and Brownian motion.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAB52H3	STAC62H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: STAD68H3 - Compare

Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	2016 - Statistics	2016 - Statistics
Calendar Title	Advanced Machine Learning and Data Mining	Advanced Machine Learning and Data Mining
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Statistical aspects of supervised learning: regression, regularization methods, parametric and nonparametric classification methods, including Gaussian processes for regression and support vector machines for classification, model averaging, model selection, and mixture models for unsupervised learning. Some advanced methods will include Bayesian networks and graphical models.	Statistical aspects of supervised learning: regression, regularization methods, parametric and nonparametric classification methods, including Gaussian processes for regression and support vector machines for classification, model averaging, model selection, and mixture models for unsupervised learning. Some advanced methods will include Bayesian networks and graphical models.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Quantitative Reasoning	Quantitative Reasoning
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	STAC58H3 and STAC67H3	CSCC11H3 and STAC58H3 and STAC67H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPAB13H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Financial Management for Arts Managers	Financial Management for Arts Managers
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to financial management issues faced by arts and cultural managers. The topics include an introduction to basic accounting concepts, financial statement preparation and analysis, internal control and management information systems, budgeting and programming, cash and resource management, and various tax-related issues.	An introduction to financial management issues faced by arts and cultural managers. The topics include an introduction to basic accounting concepts, financial statement preparation and analysis, internal control and management information systems, budgeting and programming, cash and resource management, and various tax-related issues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPAA10H3	VPAA10H3
Corequisite		
Exclusion	MGTB03H3	MGTB03H3
Recommended Preparation	VPAA12H3 or [(VPAB12H3) and (VPAB14H3)]	VPAA12H3 or [(VPAB12H3) and (VPAB14H3)]
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPAC13H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Planning and Project Management in the Arts and Cultural Sector	Planning and Project Management in the Arts and Cultural Sector
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course provides a broad foundation of project management and planning knowledge and skills. Topics such as project and special event management (including tours, festivals, etc.), and strategic and business planning (including entrepreneurship) will be discussed in the context of organizational processes.	This course provides a broad foundation of project management and planning knowledge and skills. Topics such as project and special event management (including tours, festivals, etc.), and strategic and business planning (including entrepreneurship) will be discussed in the context of organizational processes.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	8.0 credits including VPAB13H3 and VPAB16H3	8.0 credits including VPAB13H3 , VPAB16H3 and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPAC15H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Cultural Policy	Cultural Policy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A survey of the principles, structures and patterns of cultural policy and arts funding, both nationally and internationally. The course will explore a wide range of cultural policy issues, addressing both the subsidized arts and cultural industries sectors, and exploring the strengths and weaknesses of particular policy approaches.	A survey of the principles, structures and patterns of cultural policy and arts funding, both nationally and internationally. The course will explore a wide range of cultural policy issues, addressing both the subsidized arts and cultural industries sectors, and exploring the strengths and weaknesses of particular policy approaches.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[8.0 credits, including VPAA10H3 and VPAB05H3] or [8.0 credits, including SOCB58H3 and registration in the Minor in Culture, Creativity, and Cities]	[8.0 credits, including VPAA10H3 and VPAB05H3 and ACMB01H3] or [8.0 credits, including SOCB58H3 and registration in the Minor in Culture, Creativity, and Cities]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPAC16H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Legal and Human Resources Issues in Arts Management	Legal and Human Resources Issues in Arts Management
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is a study of legal and practical human resource issues from an arts management perspective. Topics will include copyright, freedom of expression, censorship, and issues related to labour relations and contracts in the cultural sector.	This course is a study of legal and practical human resource issues from an arts management perspective. Topics will include copyright, freedom of expression, censorship, and issues related to labour relations and contracts in the cultural sector.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	8.0 credits including VPAA10H3	8.0 credits including VPAA10H3 and ACMB01H3
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: VPAC17H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Arts Marketing	Arts Marketing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced study of marketing within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to be responsive to varied market groups and changing market environments and successfully bring art and audiences together.	An advanced study of marketing within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to be responsive to varied market groups and changing market environments and successfully bring art and audiences together.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPAA10H3 and VPAA12H3	VPAA10H3 and VPAA12H3 and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation	VPAA06H3	VPAA06H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPAC18H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Fundraising and Development in the Arts	Fundraising and Development in the Arts
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced study of fundraising and resource development within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to develop and increase contributed revenue to support the artistic mission of cultural organizations.	An advanced study of fundraising and resource development within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to develop and increase contributed revenue to support the artistic mission of cultural organizations.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPAA12H3 and VPAB13H3 and VPAB16H3	VPAA12H3 and VPAB13H3 and VPAB16H3 and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPAC21H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Special Topics in Arts Management I	Special Topics in Arts Management I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.	Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10.0 credits, including VPAA10H3 , VPAA12H3 , and VPAB16H3 .	10.0 credits, including VPAA10H3 , VPAA12H3 , VPAB16H3 , and ACMB01H3 .
Corequisite		
Exclusion	(VPAD13H3)	(VPAD13H3)
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPAC22H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Arts Management	2016 - Arts Management
Calendar Title	Special Topics in Arts Management II	Special Topics in Arts Management II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.	Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	10.0 credits, including VPAA10H3 , VPAA12H3 , and VPAB16H3	10.0 credits, including VPAA10H3 , VPAA12H3 , VPAB16H3 , and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor		
Hours Available Online	No	No

Course: VPDC01H3 - Compare

Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	2016 - Theatre and Performance Studies	2016 - Theatre and Performance Studies
Calendar Title	Advanced Workshop: Performance	Advanced Workshop: Performance
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of the exploration of advanced performance techniques begun in VPDB02H3.	A continuation of the exploration of advanced performance techniques begun in VPDB02H3.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPDB01H3 & VPDB02H3 & permission of the Theatre & Performance Teaching Staff	VPDB01H3 and VPDB02H3 and ACMB01H3 and permission of the Theatre & Performance Studies teaching staff
Corequisite		
Exclusion	DRM400Y	DRM400Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPDC02H3 - Compare

Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	2016 - Theatre and Performance Studies	2016 - Theatre and Performance Studies
Calendar Title	Directing for the Theatre	Directing for the Theatre
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The practical study of basic stage directing techniques in a workshop atmosphere. This course will provide students with the fundamental tools of the director's craft, through an investigation of the principles of script analysis, composition and staging, director/actor communication and rehearsal technique, and will culminate in the presentation of short plays.	The practical study of basic stage directing techniques in a workshop atmosphere. This course will provide students with the fundamental tools of the director's craft, through an investigation of the principles of script analysis, composition and staging, director/actor communication and rehearsal technique, and will culminate in the presentation of short plays.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	<u>VPDB01H3</u> & <u>VPDB02H3</u> plus 1 other full credit in Theatre & Performance Studies & permission of instructor	<u>VPDB01H3</u> and <u>VPDB02H3</u> and <u>ACMB01H3</u> and an additional 1.0 credit in Theatre & Performance Studies and permission of the instructor
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	8	8
Note		
Instructor Hours		
Available Online	No	No

Course: VPDC03H3 - Compare

Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	2016 - Theatre and Performance Studies	2016 - Theatre and Performance Studies
Calendar Title	Technical Production II	Technical Production II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of Technical Production I. Students will explore in greater depth the practical application of the technical elements of theatrical production. As part of the course, students will assume responsibility for some of the technical positions available in U of T Scarborough productions.	A continuation of Technical Production I. Students will explore in greater depth the practical application of the technical elements of theatrical production. As part of the course, students will assume responsibility for some of the technical positions available in U of T Scarborough productions.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPDB03H3	VPDB03H3 and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPDC08H3 - Compare

Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	2016 - Theatre and Performance Studies	2016 - Theatre and Performance Studies
Calendar Title	Physical Theatre	Physical Theatre
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of a wide range of physical acting techniques such as mime, clown, mask performance, stage acrobatics, unarmed stage fighting, and so on. This course is designed to further advance students' performance skills by increasing their vocabulary of physical expression and theatrical communication.	An exploration of a wide range of physical acting techniques such as mime, clown, mask performance, stage acrobatics, unarmed stage fighting, and so on. This course is designed to further advance students' performance skills by increasing their vocabulary of physical expression and theatrical communication.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPDB01H3 & VPDB02H3	VPDB01H3 and VPDB02H3 and ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	12	12
Note		
Instructor Hours		
Available Online	No	No

Course: VPDC20H3 - Compare

Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	2016 - Theatre and Performance Studies	2016 - Theatre and Performance Studies
Calendar Title	Special Topics in Performance	Special Topics in Performance
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Selected advanced topics for intensive practical study of some specific aspects of performance. The topics explored in this course will change from session to session.	Selected advanced topics for intensive practical study of some specific aspects of performance. The topics explored in this course will change from session to session.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	Any 3 full credits in Theatre & Performance Studies; and permission of the Program Director.	Any 3.0 credits in Theatre & Performance Studies and ACMB01H3 and permission of the Program Director.
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	16	16
Note	Further information can be found on the ACM-Theatre & Performance Studies website.	Further information can be found on the ACM-Theatre & Performance Studies website.
Instructor Hours Available Online	No	No

Course: VPHB39H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Ten Key Words in Art History: Unpacking Methodology	Ten Key Words in Art History: Unpacking Methodology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Key concepts in art history, including intention, meaning, style, materiality, identity, production, reception, gender, visibility, and history. Students will explore critical questions such as whether and how to read artist's biographies into their art. This course helps students understand the discipline and develops critical thinking and research skills required in advanced courses.	Key concepts in art history, including intention, meaning, style, materiality, identity, production, reception, gender, visibility, and history. Students will explore critical questions such as whether and how to read artist's biographies into their art. This course helps students understand the discipline and develops critical thinking and research skills required in advanced courses.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		VPHA46H3 or ACMA01H3
Corequisite		
Exclusion	FAH102H	FAH102H
Recommended Preparation	VPAH46H3	
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHB50H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Africa Through the Photographic Lens	Africa Through the Photographic Lens
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The centrality of photographic practice to African cultures and histories from the period of European imperialism, the rise of modernist "primitivism" and the birth of ethnology and anthropology to contemporary African artists living on the continent and abroad.	The centrality of photographic practice to African cultures and histories from the period of European imperialism, the rise of modernist "primitivism" and the birth of ethnology and anthropology to contemporary African artists living on the continent and abroad.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	None. Visual art studio students are encouraged to enrol.	VPHA46H3 or ACMA01H3 or AFSA01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHB53H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Medieval Art	Medieval Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The origins of European artistic traditions in the early Christian, Mediterranean world; how these traditions were influenced by classical, Byzantine, Moslem and pagan forms; how they developed in an entirely new form of artistic expression in the high Middle Ages; and how they led on to the Renaissance.	The origins of European artistic traditions in the early Christian, Mediterranean world; how these traditions were influenced by classical, Byzantine, Moslem and pagan forms; how they developed in an entirely new form of artistic expression in the high Middle Ages; and how they led on to the Renaissance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		VPHA46H3
Corequisite		
Exclusion	FAH216H, (FAH261H)	FAH215H, FAH216H
Recommended Preparation	VPHA46H3	
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHB58H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Modern Art and Culture	Modern Art and Culture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Nineteenth and twentieth century art in relation to the modern world. What 'modern' means when used to describe art, and how art is affected by the dynamic cultural, economic, social, and political contexts of the modern world.	A study of nineteenth and twentieth century arts and visual media, across genres and cultures. What did modernity mean in different cultural contexts? How is 'modern' art or 'modernism' defined? How did the dynamic cultural, economic, and socio-political shifts of the globalizing and industrializing modern world affect the visual arts and their framing?
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		VPHA46H3
Corequisite		
Exclusion	FAH246H, (FAH287H), (FAH288H)	FAH245H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: VPHB59H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Current Art Practices	Current Art Practices
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Shifts in theory and practice in art of the past fifty years. Studying selected artists' works from around the world, we explore how notions of modern art gave way to new ideas about media, patterns of practice, and the relations of art and artists to the public, to their institutional contexts, and to globalized cultures.	Shifts in theory and practice in art of the past fifty years. Studying selected artists' works from around the world, we explore how notions of modern art gave way to new ideas about media, patterns of practice, and the relations of art and artists to the public, to their institutional contexts, and to globalized cultures.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		VPHA46H3 or VPHB39H3
Corequisite		
Exclusion	(FAH289H)	
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHB63H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Fame, Glory and Spectacle: 14th-16th Century Art in Italy	Fame, Glory and Spectacle: 14th-16th Century Art in Italy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is an introduction to art and visual culture produced in Italy ca. 1350-1550. Students will explore new artistic media and techniques, along with critical issues of social, cultural, intellectual, theoretical and religious contexts that shaped the form and function of art made during this era.	This course is an introduction to art and visual culture produced in Italy ca. 1350-1550. Students will explore new artistic media and techniques, along with critical issues of social, cultural, intellectual, theoretical and religious contexts that shaped the form and function of art made during this era.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3	VPHA46H3
Corequisite		
Exclusion	FAH230H, FAH274H	FAH230H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHB64H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Baroque Visions	Baroque Visions
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces the art and culture of 17th century Europe and its colonies. Art of the Baroque era offers rich opportunities for investigations of human exploration in geographic, spiritual, intellectual and political realms. We will also consider the development of the artist and new specializations in subject and media.	This course introduces the art and culture of 17th century Europe and its colonies. Art of the Baroque era offers rich opportunities for investigations of human exploration in geographic, spiritual, intellectual and political realms. We will also consider the development of the artist and new specializations in subject and media.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3	VPHA46H3
Corequisite		
Exclusion	FAH231H, FAH279H	FAH231H, FAH279H
Recommended Preparation		VPHB63H3 or VPHB74H3
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHB68H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Art and the Everyday: Mass Culture and the Visual Arts	Art and the Everyday: Mass Culture and the Visual Arts
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the relationship between visibility and practices of everyday life. It looks at the interaction of the political, economic and aesthetic aspects of mass media with the realm of "fine" arts across history and cultures. We will explore notions of the public, the mass, and the simulacrum.	This course explores the relationship between visibility and practices of everyday life. It looks at the interaction of the political, economic and aesthetic aspects of mass media with the realm of "fine" arts across history and cultures. We will explore notions of the public, the mass, and the simulacrum.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		VPHA46H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: VPHB73H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Visualizing Asia	Visualizing Asia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A survey of the art of China, Japan, Korean, India, and Southeast Asia. We will examine a wide range of artistic production, including ritual objects, painting, calligraphy, architectural monuments, textile, and prints. Special attention will be given to social contexts, belief systems, and interregional exchanges. Same as GASB73H3	A survey of the art of China, Japan, Korean, India, and Southeast Asia. We will examine a wide range of artistic production, including ritual objects, painting, calligraphy, architectural monuments, textile, and prints. Special attention will be given to social contexts, belief systems, and interregional exchanges. Same as GASB73H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 or GASA01H3	ACMA01H3 or VPHA46H3 or GASA01H3
Corequisite		
Exclusion	GASB73H3 , FAH261H	GASB73H3 , FAH260H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHB74H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Art in Early Modern Europe: Renaissances Outside of Italy	Art in Early Modern Europe: Renaissances Outside of Italy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the rich visual culture produced in northern and central Europe 1400-1600. Topics such as the rise of print culture, religious conflict, artistic identity, contacts with other cultures and the development of the art market will be explored in conjunction with new artistic techniques, styles and materials.	This course explores the rich visual culture produced in northern and central Europe 1400-1600. Topics such as the rise of print culture, religious conflict, artistic identity, contacts with other cultures and the development of the art market will be explored in conjunction with new artistic techniques, styles and materials.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		VPHA46H3
Corequisite		
Exclusion	FAH230H, FAH274H	FAH230H, FAH274H
Recommended Preparation	VPAA46H3	
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHB77H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Asia in Display	Modern Asian Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingual practices, and multiple modernism. Same as GASB77H3	An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingual practices, and multiple modernism. Same as GASB77H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		ACMA01H3 or VPHA46H3 or GASA01H3
Corequisite		
Exclusion	GASB77H3	GASB77H3, FAH262H
Recommended Preparation	VPHA46H3 or GASA01H3	
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHC41H3 - Compare

Course Code	<u>VPHB42H3</u>	<u>VPHC41H3</u>
Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Carolingian and Romanesque Art and Architecture	Carolingian and Romanesque Art and Architecture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century, considered in relation to geographical context, to monasticism and pilgrimage, to artistic developments of the contemporary Mediterranean world, and to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam and the art of the invasion period.	Major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century, considered in relation to geographical context, to monasticism and pilgrimage, to artistic developments of the contemporary Mediterranean world, and to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam and the art of the invasion period.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		<u>VPHB53H3</u>
Corequisite		
Exclusion	FAH215H	<u>(VPHB42H3)</u> , FAH215H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHC42H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Gothic Architecture	Gothic Art and Architecture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Current scholarship is expanding and challenging how we decide "what is Gothic?" We will examine a variety of buildings, considering artistic culture, social, cultural, and physical contexts as well. Style, building techniques, patronage, location in time and space, and importance of decoration (sculpture, stained glass, painting, tapestry) will be among topics discussed.	Current scholarship is expanding and challenging how we decide "what is Gothic?" We will examine a variety of artworks, considering artistic culture, social, cultural, and physical contexts as well. Style, techniques, patronage, location in time and space, and importance of decoration (sculpture, stained glass, painting, tapestry) will be among topics discussed.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	One credit in art history at the B-level.	VPHB53H3 and ACMB01H3
Corequisite		
Exclusion	FAH328H, FAH351H (UTM only), (FAH369H)	FAH328H, FAH351H (UTM only), (FAH369H)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHC49H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Advanced Studies in Art Theory	Advanced Studies in Art Theory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The class will read selected recent cultural theory and art theory and consider its implications for a variety of works of art, and will investigate selected exhibition critiques and the critical discourse surrounding the oeuvres of individual artists.	The class will read selected recent cultural theory and art theory and consider its implications for a variety of works of art, and will investigate selected exhibition critiques and the critical discourse surrounding the oeuvres of individual artists.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 & [VPAB05H3 or (VPAB06H3)]	VPHA46H3 and VPHB39H3 and ACMB01H3
Corequisite	2.0 credits at the B-level in art history and/or studio.	1.0 credit at the B-level in VPH and/or VPS courses
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPHC52H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Ethiopia: Seeing History	Ethiopia: Seeing History
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. Same as AFSC52H3 and HISC52H3	This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments. Same as AFSC52H3 and HISC52H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	[1.0 credit in History] or VPHA46H3 and ACMB01H3 and an additional 1.0 credit in History	[1.0 credit in History] or VPHA46H3 and ACMB01H3 and an additional 1.0 credit in VPH courses
Corequisite		
Exclusion	AFSC52H3 , HISC52H3	AFSC52H3 , HISC52H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPHC72H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	Art, the Museum, and the Gallery	Art, the Museum, and the Gallery
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Art and the settings in which it is seen in cities today. Some mandatory classes to be held in Toronto museums and galleries, giving direct insight into current exhibition practices and their effects on viewer's experiences of art; students must be prepared to attend these classes.	Art and the settings in which it is seen in cities today. Some mandatory classes to be held in Toronto museums and galleries, giving direct insight into current exhibition practices and their effects on viewer's experiences of art; students must be prepared to attend these classes. Same as CURC72H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHB71H3 & VPHB72H3	ACMB01H3 and CURB01H3 and CURB02H3
Corequisite		
Exclusion		CURC72H3
Recommended Preparation		
Enrolment Limits	20	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPHC74H3 - Compare

Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	2016 - Art History and Visual Culture	2016 - Art History and Visual Culture
Calendar Title	A Tale of Three Cities: Introduction to Contemporary Art in China	A Tale of Three Cities: Introduction to Contemporary Art in China
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China's persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change. Same as GASC74H3.	An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China's persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change. Same as GASC74H3.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3 , VPHB73H3 , HISB58H3 , (GASB31H3), GASB33H3 , or GASB35H3 .	2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3 , VPHB73H3 , HISB58H3 , (GASB31H3), GASB33H3 , or GASB35H3 .
Corequisite		
Exclusion	GASC74H3	GASC74H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		

**Available
Online**

No

No

Course: VPMB82H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Art Music in the Modern and Contemporary Eras	Music in the Modern and Contemporary World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of art music in Western society during the period ca. 1900 to the present. This course integrates close analysis of selected compositions with a study of the historical, social, cultural, and political contexts of music-making during this period.	An examination of art and popular music in Western society. Through deep listening and score study we investigate the cultural, historical, political and social contexts of music-making as experienced in the modern and contemporary world.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPMA90H3 and VPMA93H3	VPMA93H3
Corequisite		VPMB88H3 or (VPMA90H3)
Exclusion	(VPMB89H3)	(VPMB89H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB88H3 - Compare

Course Code	<u>VPMA90H3</u>	<u>VPMB88H3</u>
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Materials of Music I	Materials of Music I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The basic materials of music from the Middle Ages to the present, including elementary harmony, musical forms, introductory analytical and compositional techniques and aural training.	The basic materials of music from the Middle Ages to the present, including elementary harmony, musical forms, introductory analytical and compositional techniques and aural training.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	<u>VPMA95H3</u> or [<u>Royal Conservatory Grade II Rudiments</u> or equivalent]	<u>VPMA95H3</u> or [<u>Grade 12 Music</u> or equivalent]] and [0.5 credit in Performance]
Corequisite		
Exclusion		<u>(VPMA90H3)</u>
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPMB90H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Materials of Music II	Materials of Music II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMA90H3.	Further study of the basic materials of music with increased emphasis on composition.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPMA90H3 or Royal Conservatory Grade III harmony or equivalent.	VPMB88H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB99H3 - Compare

Course Code	<u>VPMA99H3</u>	<u>VPMB99H3</u>
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Music of the World's Peoples	Music of the World's Peoples
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to music from different parts of the world, including folk, popular, religious and classical traditions. This course aims to help students appreciate and understand music as a global phenomenon, and its important role in social and cultural life. Audio-visual materials feature prominently. No previous musical experience is necessary.	An introduction to music from different parts of the world, including folk, popular, religious and classical traditions. This course aims to help students appreciate and understand music as a global phenomenon, and its important role in social and cultural life. Audio-visual materials feature prominently. No previous musical experience is necessary.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	MUS200H	<u>(VPMA99H3)</u> , MUS200H
Recommended Preparation		<u>VPMA93H3</u>
Enrolment Limits		
Note		
Instructor		
Hours Available	No	No
Online		

Course: VPMC78H3 - Compare

Course Code	VPMB78H3	VPMC78H3
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Balinese Gamelan: Performance and Context	Balinese Gamelan: Performance and Context
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the repertory and performance of Balinese Gamelan. Combines practical music-making and academic study. Students will learn to play the Balinese Gamelan - an orchestra of bronze percussion instruments - and examine the integral function of gamelan in Balinese cultural, ceremonial, and religious life.	An introduction to the repertory and performance of Balinese Gamelan. Combines practical music-making and academic study. Students will learn to play the Balinese Gamelan - an orchestra of bronze percussion instruments - and examine the integral function of gamelan in Balinese cultural, ceremonial, and religious life.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		ACMB01H3 and [VPMB99H3 or (VPMA99H3)] and [an additional 1.0 credit at the B-level in VPM courses];
Corequisite		
Exclusion		(VPMB78H3)
Recommended Preparation	VPMA99H3	
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPMC85H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Movies, Music and Meaning	Movies, Music and Meaning
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon. Same as MDSC85H3	This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon. Same as MDSC85H3
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in VPM courses]	ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in VPM courses]]
Corequisite		
Exclusion	MDSC85H3	MDSC85H3
Recommended Preparation		
Enrolment Limits	50	50
Note	No specialist knowledge in musicology or film studies required.	No specialist knowledge in musicology or film studies required.
Instructor Hours		

**Available
Online**

No

No

Course: VPMC88H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Special Topics in Music and Culture	Topics in Music and Culture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The investigation of an area of current interest and importance in musical scholarship. The topic to be examined will change from year to year and will be available in advance on the course website.	The investigation of an area of current interest and importance in musical scholarship. The topic to be examined will change from year to year and will be available in advance on the ACM department website.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPMB90H3 and one course from the series VPMB82H3-VPMB83H3 or [(VPMB86H3)-(VPMB89H3)]	A[CMB01H3 and VPMB82H3 and VPMB99H3] and [an additional 0.5 credit at the B-level in VPM courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC89H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Music and Politics	Music and Identity
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An inquiry into how music functions as a political force both historically and in contemporary society. Introducing students to uses of music that both reflect and shape various political positions, the course draws on methodologies from political science, history, classical studies, anthropology, cultural and literary theory.	An inquiry into the politics of identity (gender, sexuality, race, class, etc.) in music.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	At least 1.0 full credit in Humanities at the B-level.	ACMB01H3 and VPMB82H3 and VPMB99H3 and [an additional 0.5 credit at the B-level in VPM courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: VPMC90H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Materials of Music III	Materials of Music III
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMB90H3, with an emphasis on analysis.	More advanced study of the materials of music with an emphasis on composition.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	VPMB90H3	VPMB90H3 and [an additional 1.0 credit at the B-level in VPM courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC91H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Introduction to Electronic Music	Electronic Music
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to understanding electronic, electroacoustic and computer generated music and developing creative skills in these media through theoretical, aesthetic, and practical perspectives.	An introduction to understanding electronic, electroacoustic and computer generated music and developing creative skills in these media through theoretical, aesthetic, and practical perspectives. This course is lab and lecture based.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPMB90H3 , and at least one other VPM course at the B-level	ACMB01H3 and VPMB90H3 and [an additional 1.0 credit at the B-level in VPM courses]
Corequisite		
Exclusion		
Recommended Preparation	VPMB82H3	VPMB82H3
Enrolment Limits	12	20
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPMC94H3 - Compare

Course Code	<u>VPMB94H3</u>	<u>VPMC94H3</u>
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Jazz	Jazz
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A history of jazz from its African and European roots to present day experiments. Surveys history of jazz styles, representative performers and contexts of performance. <u>No previous musical experience is required.</u>	A history of jazz from its African and European roots to present day experiments. Surveys history of jazz styles, representative performers and contexts of performance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		<u>[ACMB01H and <u>VPMB82H3</u>] and [an additional 1.0 credit at the B-level in VPM courses].</u>
Corequisite		
Exclusion		<u>(VPMB94H3)</u>
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPMC95H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Musical Diasporas in Canada and the USA	Musical Diasporas
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the unique role of music and the arts in the construction and maintenance of transnational identity in the North American diaspora. Examples under study will cover a wide range of communities (e.g. Asian, Caribbean and African) and places (e.g. Los Angeles, Toronto and Detroit).	This course examines the unique role of music and the arts in the construction and maintenance of transnational identity in the diaspora. Examples under study will cover a wide range of communities (e.g. Asian, Caribbean and African) and places.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPMA99H3 & [1.0 full credit in VPM courses at the B-level]	ACMB01H3 and VPMB99H3 or (VPMA99H3) and [an addition 1.0 credit at the B-level in VPM courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC97H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Music, Technologies, Media	Music, Technologies, Media
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of music's relationships to media and technology, and how these shape musical practices, consumption, and understanding in historical and contemporary contexts. Topics include music printing, music journalism, development of acoustic, mechanical, and electronic instruments, the recording industry, radio, electroacoustic and computer composition, and digital dissemination via the internet.	An exploration of music's relationships to media and technology, and how these shape musical practices, consumption, and understanding in historical and contemporary contexts. Topics include music printing, music journalism, development of acoustic, mechanical, and electronic instruments, the recording industry, radio, electroacoustic and computer composition, and digital dissemination via the internet.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	At least 1.0 full credit at the B-level. Priority will be given to students in Music and Culture, and Media Studies programs.	ACMB01H3 and [[2.0 credits at the B-level in VPM courses] or [2.0 credits at the B-level in MDS courses]]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		No specialist knowledge in music or media studies required.
Instructor Hours		

**Available
Online**

No

No

Course: VPMD90H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2016 - Music and Culture	2016 - Music and Culture
Calendar Title	Critical Issues in Music and Society	Critical Issues in Music and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An investigation into significant issues in music and society. Topics will vary but may encompass art, popular and world music. Issues may include music's relationship to technology, commerce and industry, identity, visual culture, and performativity. Through readings and case studies we consider music's importance to and place in society and culture.	An investigation into significant issues in music and society. Topics will vary but may encompass art, popular and world music. Issues may include music's relationship to technology, commerce and industry, identity, visual culture, and performativity. Through readings and case studies we consider music's importance to and place in society and culture.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	1.5 credits at the C-level in VPM courses	VPMB82H3 and VPMB99H3 and 1.0 credit at the C-level in VPM courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA61H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Painting I	Painting I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An investigation of the basic elements and concepts of painting through experimentation in scale and content.	An investigation of the basic elements and concepts of painting through experimentation in scale and content.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Exclusion	(VPSB61H3), VIS201H	(VPSB61H3), VIS201H, FAS145H
Recommended Preparation		
Enrolment Limits	20 per section	20 per section
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA62H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Foundation Studies in Studio	Foundation Studies in Studio
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the importance of content and context in the making of contemporary art.	An introduction to the importance of content and context in the making of contemporary art.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite		
Corequisite	VPSA63H3	VPSA63H3
Exclusion	VIS130H	VIS130H, JAV130H
Recommended Preparation		
Enrolment Limits	20 per section	20 per section
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPSA63H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	But Why Is It Art?	But Why Is It Art?
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This introductory seminar examines the key themes, concepts, and questions that affect the practice of contemporary art. We will look at specific cases in the development of art and culture since 1900 to understand why and how contemporary art can exist as such a wide-ranging set of forms, media and approaches.	This introductory seminar examines the key themes, concepts, and questions that affect the practice of contemporary art. We will look at specific cases in the development of art and culture since 1900 to understand why and how contemporary art can exist as such a wide-ranging set of forms, media and approaches.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite		
Exclusion	VIS120H	VIS120H, JAV120H, VST101H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours Available Online	No	No

Course: VPSA70H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Drawing I	Drawing I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An investigation of the various approaches to drawing, including working from the figure and working with ideas.	An investigation of the various approaches to drawing, including working from the figure and working with ideas.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Exclusion	(VPSB70H3), VIS205H	(VPSB70H3), VIS205H, FAS143H
Recommended Preparation		
Enrolment Limits	20 per section	20 per section
Note		
Instructor Hours Available Online	No	No

Course: VPSA71H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Introduction to Sculpture	Introduction to Sculpture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to the use of three-dimensional materials and processes for creating sculptural objects. Traditional and non-traditional sculptural methodologies and concepts will be explored.	This course introduces students to the use of three-dimensional materials and processes for creating sculptural objects. Traditional and non-traditional sculptural methodologies and concepts will be explored.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite		
Corequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Exclusion		FAS248H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA74H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Digital Studio I	Digital Studio I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This hands-on, project-based class will investigate fundamental digital concepts common to photography, animation, and digital publishing practices. Students will learn general image processing, composing, colour management, chromakey, and typographic tools for both on-line and print-based projects. These will be taught through Adobe Creative Suite software on Apple computers.	This hands-on, project-based class will investigate fundamental digital concepts common to photography, animation, and digital publishing practices. Students will learn general image processing, composing, colour management, chromakey, and typographic tools for both on-line and print-based projects. These will be taught through Adobe Creative Suite software on Apple computers.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite		
Corequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Exclusion	VIS218H	VIS218H, FAS147H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB62H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Painting II	Painting II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of Painting I with an emphasis on images and concepts developed by individual students.	A continuation of Painting I with an emphasis on images and concepts developed by individual students.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSA61H3 or (VPSB61H3)	VPSA61H3 or (VPSB61H3)
Corequisite		
Exclusion	VIS220H	VIS220H, FAS245H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours Available Online	No	No

Course: VPSB63H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Sculpture and the Everyday	Sculpture and the Everyday
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Sculpture and the Everyday introduces students to contemporary sculptural approaches that include the use of everyday found materials and sculptural interventions in public spaces. Students will learn new techniques for installing and presenting artworks inside and outside of the gallery. Previous experience in sculpture is not required for this course.	Sculpture and the Everyday introduces students to contemporary sculptural approaches that include the use of everyday found materials and sculptural interventions in public spaces. Students will learn new techniques for installing and presenting artworks inside and outside of the gallery. Previous experience in sculpture is not required for this course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSA62H3 & VPSA63H3 & 0.5 full credit in Studio at the A-level	VPSA62H3 and VPSA63H3 and 0.5 credit at the A-level in Studio courses
Corequisite		
Exclusion	VIS204H	VIS204H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB67H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Photo I	Photo I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to fundamental photographic concepts including depth, focus, stopped time, lighting and photographic composition in contrast to similar fundamental concerns in drawing and painting. A practical and historical discourse on the primary conceptual streams in photography including various documentary traditions, staged photographs and aesthetic approaches from photographic modernism to postmodernism.	An introduction to fundamental photographic concepts including depth, focus, stopped time, lighting and photographic composition in contrast to similar fundamental concerns in drawing and painting. A practical and historical discourse on the primary conceptual streams in photography including various documentary traditions, staged photographs and aesthetic approaches from photographic modernism to postmodernism.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSA74H4	VPSA74H4
Corequisite		
Exclusion	(VPSA72H3)	(VPSA72H3), VIS218H, FAS147H
Recommended Preparation		
Enrolment Limits	20. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB72H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Digital Publishing	Digital Publishing
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>A course for students interested in publishing artworks in digital formats such as e-books, short-run printed catalogues and blogs. Lessons will identify common editorial and image preparation concerns while introducing software for assembling images, videos, sounds, graphics, and texts into coherent and intelligently-designed digital publications. Creative solutions are expected.</p>	<p>A course for students interested in designing and publishing artworks using digital tools. The emphasis will be on short-run printed catalogues, along with some exploration of e-books and blogs. Lessons will identify common editorial and image preparation concerns while introducing software for assembling images, videos, sounds, graphics, and texts into coherent and intelligently-designed digital publications. Creative solutions are expected.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]	[VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Corequisite		
Exclusion		VIS328H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB73H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Curatorial Perspectives I	Curatorial Perspectives I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to offer students direct encounters with artists and curators through studio and gallery visits. Field encounters, written assignments, readings and research focus on contemporary art and curatorial practices. The course will provide skills in composing critical views, artist statements, and writing proposals for art projects.	This course is designed to offer students direct encounters with artists and curators through studio and gallery visits. Field encounters, written assignments, readings and research focus on contemporary art and curatorial practices. The course will provide skills in composing critical views, artist statements, and writing proposals for art projects.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPSA62H3 and VPSA63H3 and [0.5 credit at the A-level in Studio courses]	VPSA62H3 and VPSA63H3 and [0.5 credit at the A-level in Studio courses] or [enrolment in the Minor in Curatorial Studies]
Corequisite		
Exclusion	VIS320H	VIS320H
Recommended Preparation		
Enrolment Limits	20	15
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPSB74H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Drawing II	Drawing II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPSA70H3 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.	A continuation of VPSA70H3 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPSA62H3 & VPSA63H3 & VPSA70H3 or VPSA62H3 and VPSA63H3 and VPSA70H3 (VPSB70H3)].	VPSA62H3 and VPSA63H3 and VPSA70H3
Corequisite		
Exclusion	VIS211H	VIS211H, FAS243H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB75H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Photo II	Photo II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A studio course in digital photography as it relates to the critical investigation of contemporary photo-based art.	A studio course in digital photography as it relates to the critical investigation of contemporary photo-based art.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSB67H3	VPSB67H3
Corequisite		
Exclusion		FAS247H, VIS318H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB80H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Digital Studio II	Digital Studio II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An in-depth investigation of digital imaging technologies for serious studio artists and new media designers. Emphasis is placed on advanced image manipulation, seamless collage, invisible retouching and quality control techniques for fine art production. Project themes will be drawn from a critical analysis of contemporary painting and photo-based art.	An in-depth investigation of digital imaging technologies for serious studio artists and new media designers. Emphasis is placed on advanced image manipulation, seamless collage, invisible retouching and quality control techniques for fine art production. Project themes will be drawn from a critical analysis of contemporary painting and photo-based art.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPSA74H3	VPSA74H3
Corequisite		
Exclusion	VIS318H	FAS247H , VIS318H
Recommended Preparation	VPSB67H3	VPSB67H3
Enrolment Limits	20	20
Note		
Instructor Hours Available Online	No	No

Course: VPSB83H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Art and Activism	Art and Activism
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course will explore contemporary artistic practices that blur the boundary between art and activism.</p> <p>We will examine how artists address political issues and the techniques they use to reach different types of audiences. Students will do research and develop projects that address specific local issues and wider social concerns.</p>	<p>This course will explore contemporary artistic practices that blur the boundary between art and activism.</p> <p>We will examine how artists address political issues and the techniques they use to reach different types of audiences. Students will do research and develop projects that address specific local issues and wider social concerns.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPSA62H3 & VPSA63H3 & 0.5 full credit in Studio at the A-level	VPSA62H3 and VPSA63H3 and 0.5 credit at the A-level in Studio courses
Corequisite		
Exclusion	VIS307H	VIS307H, VIS310H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB85H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Text as Image/Language as Art	Text as Image/Language as Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An elementary study of the typographic arts will inform presentation strategies, but the investigation of critical cultural discourse through language as visual art will form the most important content of this course. How do visual artists employ words in their art?	An elementary study of the typographic arts will inform presentation strategies, but the investigation of critical cultural discourse through language as visual art will form the most important content of this course. How do visual artists employ words in their art?
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSA62H3 & VPSA63H3 & 0.5 full credit in Studio at the A-level	VPSA62H3 and VPSA63H3 and 0.5 credit at the A-Level in Studio courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB86H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Sculpture and Technology	Sculpture and Technology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students will be introduced to both the principles and practicalities of working with the concept of change as it relates to sculpture. Students will use both traditional and non-traditional materials in combination with technologically based media and processes including such things as simple circuits, machines, switches, LEDs, etc.	Students will be introduced to the principles and practicalities of working with the concept of change as it relates to three dimensional artwork. Students will use both traditional and non-traditional materials in combination with simple technologies, including motors, switches, LEDs, and introductory circuits.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPSA62H3 , VPSA63H3 and 0.5 FCE at the A-level in Studio	VPSA62H3 and VPSA63H3 and 0.5 credit at the A-level in Studio courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB88H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Sound Art	Sound Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students will be introduced to sound as a medium for art making. Listening, recording, mapping, editing, and contextualizing sounds will be the focus of this course. Sound investigations will be explored within both contemporary art and experimental sound/music contexts.	Students will be introduced to sound as a medium for art making. Listening, recording, mapping, editing, and contextualizing sounds will be the focus of this course. Sound investigations will be explored within both contemporary art and experimental sound/music contexts.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3 and [0.5 credit at the A-level in VPS courses]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC04H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	"Live!"	"Live!"
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	"Live!" investigates interdisciplinary modes of contemporary performance. Within a studio context, this course serves as an advanced exploration of 21st century Live Art. This interactive course reviews the dynamics of time, space and existence, and asks fundamental questions about the body and performance.	"Live!" investigates interdisciplinary modes of contemporary performance. Within a studio context, this course serves as an advanced exploration of 21st century Live Art. This interactive course reviews the dynamics of time, space and existence, and asks fundamental questions about the body and performance.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[VPHA46H3] and [VPSB77H3] and [0.5 credit at the B-level in Studio or TAPS courses]	[VPHA46H3] and [VPSB77H3] and [0.5 credit at the B-level in Studio or TAPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete [ACMB01H3]
Corequisite		
Exclusion	(VPDC06H3), (VPSC57H3), (VPAC04H3)	(VPDC06H3), (VPSC57H3), (VPAC04H3)
Recommended Preparation		
Enrolment Limits	12	12
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC51H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Curatorial Perspectives II	Curatorial Perspectives II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course focuses on the finer details of curating and contemporary art. Students will delve into the work of selected artists and curators with an emphasis on the conceptual and philosophical underpinnings of their projects. Term work will lead to a professionally curated exhibition organized by students.	This course focuses on the finer details of curating and contemporary art. Students will delve into the work of selected artists and curators with an emphasis on the conceptual and philosophical underpinnings of their projects. Term work will lead to a professionally curated exhibition organized by students.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 and VPSB73H3	VPHA46H3 and VPSB73H3 ; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC52H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Documentary Video	Documentary Video
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to introduce students to documentary video approaches in video art. Students will gain insight into the history and development of the experimental documentary genre through screenings, readings, and field trips. The course will provide students with the opportunity to research, develop, and produce a short documentary project.	This course is designed to introduce students to documentary video approaches in video art. Students will gain insight into the history and development of the experimental documentary genre through screenings, readings, and field trips. The course will provide students with the opportunity to research, develop, and produce a short documentary project.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 and VPSB76H3	VPHA46H3 and VPSB76H3 ; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC53H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Kinetic Sculpture	Kinetic Sculpture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students will produce art projects using mechanical principles to create sculptural forms that change over time. Students will be encouraged to use altered machines, simple electronic components and a wide range of materials.	Students will produce art projects using mechanical principles to create sculptural forms that change over time. Students will be encouraged to use altered machines, simple electronic components and a wide range of materials.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[VPHA46H3 and VPSB86H3] and [an additional 0.5 credit at the B-level in Studio courses]	[VPHA46H3 and VPSB86H3] and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	(VPSB64H3)	(VPSB64H3)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC54H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Painting III	Painting III
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced course for students who are able to pursue individual projects in painting, with a focus on contemporary practice and theory.	An advanced course for students who are able to pursue individual projects in painting, with a focus on contemporary practice and theory.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[VPHA46H3 and VPSB62H3] and [an additional 0.5 credit at the B-level in Studio courses]	[VPHA46H3 and VPSB62H3] and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS301H	VIS301H, FAS345Y
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC55H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Drawing III	Drawing III
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced course for students who are able to pursue individual projects dealing with the complex relationships between drawing and other art practices like installation, painting and mixed media.	An advanced course for students who are able to pursue individual projects dealing with the complex relationships between drawing and other art practices like installation, painting and mixed media.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	[VPHA46H3] and [VPSB74H3] ; and [an additional 0.5 credit at the B-level in Studio courses]	[VPHA46H3] and [VPSB74H3] ; and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete [ACMB01H3]
Corequisite		
Exclusion	VIS305H	VIS305H, [VIS308H] , [FAS343Y]
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours Available Online	No	No

Course: VPSC56H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Studio Practice	Studio Practice
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A supervised course focused specifically on the development of the student's work from initial concept through to the final presentation. Students may work in their choice of media with the prior written permission of the instructor.	A supervised course focused specifically on the development of the student's work from initial concept through to the final presentation. Students may work in their choice of media with the prior written permission of the instructor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 and [3.5] credits in [Studio] courses including at least 1.0 credit at the B-level]	VPHA46H3 and [3.0] credits in [VPS] courses including at least 1.0 credit at the B-level]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS311H	VIS311H, VIS326
Recommended Preparation		
Enrolment Limits	[20]	[15]
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPSC58H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Photo III	Photo III
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Focusing on both theory and practice, this is a portfolio-based course aimed at the development of idiosyncratic photographic styles and subject matter. Printing and presentation will form an important part of this portfolio's development. Students will research international networks, publications and institutions devoted to photographic discourse.	Focusing on both theory and practice, this is a portfolio-based course aimed at the development of idiosyncratic photographic styles and subject matter. Printing and presentation will form an important part of this portfolio's development. Students will research international networks, publications and institutions devoted to photographic discourse.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 & VPSB80H3 & VPSB75H3	VPHA46H3 and VPSB80H3 and VPSB75H3 ; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS318H	VIS318H, FAS347Y
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours Available Online	No	No

Course: VPSC66H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Theory and Practice: Two-Dimensional Work	Theory and Practice: Two-Dimensional Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.	An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 and [at least 1.0 credit at the B-level in Studio courses dealing with two dimensions]	VPHA46H3 and [1.0 credit at the B-level in VPS courses dealing with two dimensions]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS211H	VIS211H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours Available Online	No	No

Course: VPSC68H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Theory and Practice: Time-Based Work	Theory and Practice: Time-Based Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of ideas and practice with an emphasis on time-based media: performance, video, audio, time-based sculpture and installation.	An exploration of ideas and practice with an emphasis on time-based media: performance, video, audio, time-based sculpture and installation.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 and [an additional 1.0 credit at the B-level in Studio courses dealing with time-based media]	VPHA46H3 and [1.0 credit at the B-level in VPS courses dealing with time-based media]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS303H	VIS303H, FAS349H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC69H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Theory and Practice: Art in a Globalizing World	Theory and Practice: Art in a Globalizing World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will focus on the influence of global visual culture on contemporary art practices; exploring how artists respond to orientalism, colonial histories, migration, media, tourism, and the international art world. The culturally diverse backgrounds of students and their understanding of global media will be starting points for studio projects.	This course will focus on the influence of global visual culture on contemporary art practices; exploring how artists respond to orientalism, colonial histories, migration, media, tourism, and the international art world. The culturally diverse backgrounds of students and their understanding of global media will be starting points for studio projects.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 and [1.0 credit at the B-level in Studio courses]	VPHA46H3 and [1.0 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion	VIS325H	VIS325H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours Available Online	No	No

Course: VPSC70H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Theory and Practice: New Media in Studio	Theory and Practice: New Media in Studio
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Information technologies are radically and rapidly transforming our culture. Networking, robotics, GPS, ubiquitous computing, data mining, rfid, biotech, surveillance, sound installation, digital image processing and interactive display are all offering new opportunities for the artist as well as new critical issues to address. Students will create affordable projects that address these issues.	Information technologies are radically and rapidly transforming our culture. Networking, robotics, GPS, ubiquitous computing, data mining, rfid, biotech, surveillance, sound installation, digital image processing and interactive display are all offering new opportunities for the artist as well as new critical issues to address. Students will create affordable projects that address these issues.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 ; and 1.0 credit from VPSB76H3 or VPSB80H3 or VPSB86H3 or VPSB88H3 or VPSB89H3	VPHA46H3 ; and 1.0 credit from VPSB76H3 or VPSB80H3 or VPSB86H3 or VPSB88H3 or VPSB89H3 ; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		

**Available
Online**

No

No

Course: VPSC71H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Performing with Cameras	Performing with Cameras
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course investigates the relationship of the body to the camera. Using both still and video cameras and live performance students will create works that unite the performative and the mediated image. The course will cover how the body is framed and represented in contemporary art, advertising and the media.	This course investigates the relationship of the body to the camera. Using both still and video cameras and live performance students will create works that unite the performative and the mediated image. The course will cover how the body is framed and represented in contemporary art, advertising and the media.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 and [1.0 credit at the B-level in Studio courses]	VPHA46H3 and [1.0 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation	VPSB77H3 or VPSB67H3 or VPSB76H3	VPSB77H3 or VPSB67H3 or VPSB76H3
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC73H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Interdisciplinary Drawing Concepts	Interdisciplinary Drawing Concepts
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Interdisciplinary Drawing Concepts will extend drawing into a range of other media, allowing students to explore the sculptural, temporal and performative potential of mark-making.	Interdisciplinary Drawing Concepts will extend drawing into a range of other media, allowing students to explore the sculptural, temporal and performative potential of mark-making.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	[VPHA46H3] and [VPSB74H3] and [0.5 credit at the B-level in Studio courses]	[VPHA46H3] and [VPSB74H3] and [0.5 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete [ACMB01H3]
Corequisite		
Exclusion	[VIS323H]	[VIS308H3]
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours Available Online	No	No

Course: VPSC75H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Advanced Sculpture	Advanced Sculpture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Advanced Sculpture will provide students with an opportunity for a deeper investigation into various materials and fabrication techniques. This course will focus on the theory and practice of object making through studio assignments that develop a critical and technical literacy towards both traditional and non-traditional sculpture materials.	Advanced Sculpture will provide students with an opportunity for a deeper investigation into various materials and fabrication techniques. This course will focus on the theory and practice of object making through studio assignments that develop a critical and technical literacy towards both traditional and non-traditional sculpture materials.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	VPHA46H3 and [VPSB63H3 or VPSB73H3 or VPSB86H3]; and an additional 0.5 credit at the B-level in Studio.	VPHA46H3 and [VPSB63H3 or VPSB73H3 or VPSB86H3]; and an additional 0.5 credit at the B-level in Studio; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 .
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC89H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Digital Animation II	Digital Animation II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A project based course, building upon concepts developed in VPSB89H3 Introduction to Digital Animation. Students will refine their control of sound, movement, and image quality. This course will also introduce three-dimensional wire frame and ray-tracing techniques for constructing convincing 3-D animated objects and scenes as they apply to contemporary artistic practices.	A project based course, building upon concepts developed in VPSB89H3 Introduction to Digital Animation. Students will refine their control of sound, movement, and image quality. This course will also introduce three-dimensional wire frame and ray-tracing techniques for constructing convincing 3-D animated objects and scenes as they apply to contemporary artistic practices.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Arts, Literature & Language	Arts, Literature & Language
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	VPHA46H3 and VPSB89H3	VPHA46H3 and VPSB89H3 ; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSD55H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Advanced Special Topics in Studio	Advanced Special Topics in Studio
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Selected topics for intensive and focused practical and theoretical study in one area of specialization in studio. Topics will change from session to session.	Selected topics for intensive and focused practical and theoretical study in one area of specialization in studio. Topics will change from session to session.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	1.5 credits at the C-level in Studio courses	1.5 credits at the C-level in Studio courses
Corequisite		
Exclusion	VIS401H, VIS402H, VIS403H, VIS404H, VIS410H	VIS401H, VIS402H, VIS403H, VIS404H, VIS410H, FAS450Y, FAS451H, FAS452H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSD56H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Advanced Studio Practice	Advanced Studio Practice
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced course for students ready to work independently on their own projects. Students will be expected to work on their projects from conception to a final exhibition in the student-run gallery. Students may work in their choice of media with the written permission of the instructor.	An advanced course for students ready to work independently on their own projects. Students will be expected to work on their projects from conception to a final exhibition in the student-run gallery. Students may work in their choice of media with the written permission of the instructor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	1.5 full credits at the C-level in Studio.	1.5 full credits at the C-level in Studio.
Corequisite		
Exclusion	VIS326H, VIS401H, VIS402H, VIS403H, VIS404H	VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Recommended Preparation		
Enrolment Limits	20	15
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPSD57H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Advanced Seminar: Interdisciplinary Practice	Advanced Seminar: Interdisciplinary Practice
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An opportunity for students in VPS to explore aspects of contemporary inter-media practice and theory. Students will make work in their choice of media with the written permission of the instructor.	An opportunity for students in VPS to explore aspects of contemporary inter-media practice and theory. Students will make work in their choice of media with the written permission of the instructor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	1.5 full credits at the C-level in Studio.	1.5 full credits at the C-level in Studio.
Corequisite		
Exclusion	VIS401H, VIS402H, VIS403H, VIS404H	VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Recommended Preparation		
Enrolment Limits	20	15
Note		
Instructor		
Hours		
Available Online	No	No

Course: VPSD58H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2016 - Studio	2016 - Studio
Calendar Title	Advanced Seminar: Two-Dimensional Work	Advanced Seminar: Two-Dimensional Work
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students who have developed strong portfolios in painting, drawing or printmaking and intend to pursue professional exhibition careers will continue their investigations into two-dimensional expression and develop professional quality projects with thorough promotional strategies.	Students who have developed strong portfolios in painting, drawing or printmaking and intend to pursue professional exhibition careers will continue their investigations into two-dimensional expression and develop professional quality projects with thorough promotional strategies.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	1.5 full credits at the C-level in Studio.	1.5 full credits at the C-level in Studio.
Corequisite		
Exclusion		VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: WSTB05H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2016 - Women's and Gender Studies	2016 - Women's and Gender Studies
Calendar Title	Approaches to Research in Women's and Gender Studies	Approaches to Research in Women's and Gender Studies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Using a feminist lens, various methods and methodologies of research in the humanities will be explored. Concepts of paradigm, power, knowledge-creation and ethics will be examined. Students will gain critical reading skills and learn the fundamentals of conducting research. There is an experiential learning component.	Using a feminist lens, various methods and methodologies of research in the humanities will be explored. Concepts of paradigm, power, knowledge-creation and ethics will be examined. Students will gain critical reading skills and learn the fundamentals of conducting research. There is an experiential learning component.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	WSTA01H3 or WSTA03H3 or (WSTA02H3)	WSTA01H3 or WSTA03H3 or (WSTA02H3)
Corequisite		
Exclusion	WGS360H	WGS202H , WGS360H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: WSTB12H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2016 - Women's and Gender Studies	2016 - Women's and Gender Studies
Calendar Title	Women, Violence and Resistance	Women, Violence and Resistance
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An analysis of violence against women and recent forms of resistance to violence. A historical, cultural, and structural approach to studying gender-based violence. Family, state, economic and ideological aspects will be addressed. Initiatives toward making communities safer, including strategies for prevention and education will be examined.	An analysis of violence against women and recent forms of resistance to violence. A historical, cultural, and structural approach to studying gender-based violence. Family, state, economic and ideological aspects will be addressed. Initiatives toward making communities safer, including strategies for prevention and education will be examined.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	WSTA01H3 & WSTA03H3 or (WSTA02H3) or WSTB05H3 or WSTB11H3 or one half credit from the list provided in #7 in the Major Program]	WSTA01H3 & WSTA03H3 or (WSTA02H3) or WSTB05H3 or WSTB11H3 or one half credit from the list provided in requirement #6 in the Major in Women's and Gender Studies]
Corequisite		
Exclusion	(NEW373H), WGS373H	(NEW373H), WGS373H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: WSTC02H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2016 - Women's and Gender Studies	2016 - Women's and Gender Studies
Calendar Title	Research in the Community: Field Experience	Research in the Community: Field Experience
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Students will design and conduct a qualitative research project in the community on an issue of their choice related to women and gender. Field work is the basis of this course. It will also include an overview of the various phases of carrying out research: planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results.	Students will design and conduct a qualitative research project in the community on an issue of their choice related to women and gender. Field work is the basis of this course. It will also include an overview of the various phases of carrying out research: planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	Social & Behavioural Sciences	Social & Behavioural Sciences
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	WSTA01H3 & WSTA03H3 & WSTB05H3 & 1.5 full credits taken from the courses listed in #3 and #7 in the Major Program	WSTA01H3 & WSTA03H3 & WSTB05H3 & WSTB11H3 & 1.0 credit taken from the courses listed in requirement 6 of the Major in Women's and Gender Studies
Corequisite		
Exclusion	(WSTD02H3)	(WSTD02H3)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: WSTD03H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2016 - Women's and Gender Studies	2016 - Women's and Gender Studies
Calendar Title	Senior Seminar in Sex, Gender and the Body	Senior Seminar in Sex, Gender and the Body
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An advanced and in-depth examination of selected topics related to health, sexualities, the gendered body, and the representations and constructions of women and gender. The course will be in a seminar format with student participation expected. It is writing intensive and involves a major research project.	An advanced and in-depth examination of selected topics related to health, sexualities, the gendered body, and the representations and constructions of women and gender. The course will be in a seminar format with student participation expected. It is writing intensive and involves a major research project.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Learning Nature		
Prerequisite	WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and WSTB11H3 ; and two C-level courses from Requirement #7 of the Major Program.	WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and WSTB11H3 ; and two C-level courses from requirement #6 of the Major in Women's and Gender Studies
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note	Topics vary from year to year. Check the Women's and Gender Studies website at http://www.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.	Topics vary from year to year. Check the Women's and Gender Studies website at http://www.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.
Instructor Hours		

**Available
Online**

No

No

Course: WSTD10H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2016 - Women's and Gender Studies	2016 - Women's and Gender Studies
Calendar Title	Telling Stories: Women's Oral History	Storytelling and Social Change
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	With a focus on telling women's complex stories of life in Scarborough, this applied research course introduces students to the theory, methods and practice of feminist oral history. The course involves working and studying in the classroom and in the community. 15 hours of community work expected. Supplementary application required.	With a focus on telling women's complex stories of life in Scarborough, this applied research course introduces students to the theory, methods and practice of feminist oral history. The course involves working and studying in the classroom and in the community. 15 hours of community work expected. Supplementary application required.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement	History, Philosophy & Cultural Studies	History, Philosophy & Cultural Studies
Experiential Learning - Research	None	None
Experiential Learning - Other Learning Nature	None	None
Prerequisite	3.5 credits in WST courses, including WSTB05H3 and 0.5 credit at the C-level]	3.5 credits in WST courses, including WSTB05H3 and 0.5 credit at the C-level]
Corequisite		
Exclusion	HISC28H3, WSTC02H3 (Fall 2013), HISD44H3 (Fall 2013), CITC10H3 (Fall 2013)	HISC28H3, HISD25H3 , WSTC02H3 (Fall 2013), HISD44H3 (Fall 2013), CITC10H3 (Fall 2013)
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

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Total 104 programs - Compare

The initial and current values are shown

	Initial Value	Current Value
Program: SCMAJ1688C - Compare		
Code	SCMAJ1688C	SCMAJ1688C
Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	Computer Science	Computer Science
Title	MAJOR (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)	MAJOR (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>E-mail:</i> pancer@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>Program Objectives This program combines the coursework of the Major Program in Computer Science described above with paid work terms in public and private enterprises. It shares the objectives of the Major Program in Computer Science, but complements study of the subject with considerable work experience. This program must be combined with a major program in another discipline.</p> <p>Program Admission Refer to the Program Admission requirements for the Major Program in Computer Science described above and the Co-operative Programs section in this <i>Calendar</i>. Students entering this program must have a CGPA of at least 2.75.</p> <p>Program Requirements To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.</p> <p>Work Term Requirements Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.</p> <p>Course Requirements The course requirements of the Co-operative Major Program in Computer Science are identical to those of the Major Program in Computer Science described above.</p>	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>E-mail:</i> pancer@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>Program Objectives This program combines the coursework of the Major Program in Computer Science described above with paid work terms in public and private enterprises. It shares the objectives of the Major Program in Computer Science, but complements study of the subject with considerable work experience. This program must be combined with a major program in another discipline.</p> <p>Program Admission Refer to the Program Admission requirements for the Major Program in Computer Science described above and the Co-operative Programs section in this <i>Calendar</i>. Students entering this program must have a CGPA of at least 2.75.</p> <p>Program Requirements To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.</p> <p>Work Term Eligibility & Requirements Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete a minimum of 7.0 credits, including all first year required courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3), as well as the non-credit Arts & Science Co-op Navigating the World of Work Course (COPD01).</p> <p>Course Requirements The course requirements of the Co-operative Major Program in Computer Science are identical to those of the Major Program in Computer Science described above.</p>

Program notes/tables

Program: SCMIN1076 - Compare

Code	SCMIN1076	SCMIN1076
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	Environmental Science	Environmental Science
Title	MINOR PROGRAM IN ENVIRONMENTAL SCIENCE (SCIENCE)	MINOR PROGRAM IN ENVIRONMENTAL SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies/Advisor:</i> G. Armonditsis (416-208-4858) <i>Email:</i> georgea@utsc.utoronto.ca</p> <p>The Minor Program is designed to provide insights into the basic principles of Environmental Science and its application to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. In addition to science students, it is appropriate for students pursuing a degree in the social sciences or in management and economics.</p> <p>Program Requirements Total requirements: 4.0 full credits First Year: EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth</p> <p>Second Year: 1.5 full credits from the following: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p> <p>Third Year: 1.5 full credits of any other EES courses of which 1.0 full credit must be at the C- or D-level.</p>	<p><i>Supervisor of Studies/Advisor:</i> M. Wells (416-208-4879) <i>Email:</i> wells@utsc.utoronto.ca</p> <p>The Minor Program is designed to provide insights into the basic principles of Environmental Science and its application to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. In addition to science students, it is appropriate for students pursuing a degree in the social sciences or in management and economics.</p> <p>Program Requirements Total requirements: 4.0 full credits First Year: EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth</p> <p>Second Year: 1.5 full credits from the following: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p> <p>Third Year: 1.5 full credits of any other EES courses of which 1.0 full credit must be at the C- or D-level.</p>

Program notes/tables

Program: SCMIN1423 - Compare

Code	SCMIN1423	SCMIN1423
Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	Physics and Astrophysics	Physics and Astrophysics
Title	MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)	MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	Supervisor: J. Bayer Carpintero (416-287-7327) Email: jbayer@utsc.utoronto.ca	Supervisor: J. Lowman (416-208-4880) Email: lowman@utsc.utoronto.ca
	See the Astronomy section of this <i>Calendar</i> for program description.	See the Astronomy section of this <i>Calendar</i> for program description.

Program notes/tables

Program: SCSPEPMD - Compare

Code	SCSPEPMD	SCSPEPMD
Owning Organizations	BGYSC,PMD	BGYSC,PMD
Sections	Paramedicine	Paramedicine
Title	SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE (SCIENCE)	SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> Shelley Brunt <i>Email:</i> paramedicine@utsc.utoronto.ca</p> <p>This program consists of 16.5 required credits and may be taken in fulfillment of the requirements of a four-year (20-credit) Honours Degree. Students taking this program must take an additional 3.5 credits of electives. When choosing electives keep in mind the minimum breadth requirements that must be met to complete a degree. It is advisable that, including electives, students plan to take 2.5 credits in each semester of their four year degree. Note that three of the PMD courses are 1 credit (Y courses) rather than 0.5 credit (H courses). Students who complete the requirements of the program will also qualify for the Paramedic Diploma from Centennial College. Students who have completed the requirements for Centennial's diploma are eligible to take the Ministry of Health exams required to qualify as a Primary Care Paramedic.</p> <p>Program Admission Limited enrolment. Applicants must fill out a Paramedicine Declaration form. Prior to taking courses at Centennial College, students must also fill out a medical certificate and have current qualifications in CPR and standard first aid. Other non-academic requirements such as a vulnerable sector police check, fitness standards and face mask fit certification will also ultimately be required. Additional details regarding these requirements may be found at Centennial's website or by contacting Walter Tavares at Centennial College (WTavares@centennialcollege.ca). Applicants may arrange to complete some of these requirements during their first year of study at the University of Toronto Scarborough. For more information on admission and deadlines, see the Joint Programs with Centennial College section of this <i>Calendar</i>.</p> <p>Program Requirements</p> <p>Notes:</p> <ol style="list-style-type: none"> In order to remain in the program, students must typically maintain a cumulative grade point average of at least 2.0. Students whose cumulative GPA falls below 2.0 should consult the program supervisor to discuss their options. Please note, space in some Centennial College courses is limited. Students who must repeat one of these courses and whose CGPA has fallen below 2.0 will be allowed to register in these courses only if space permits. Suggested course sequences follow below. <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.5 Credits of Core Biology Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Genetic Processes [(BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology]</p> <p>1.5 Credits of Foundational Biology Courses BIOC17H3 Microbiology [BIOC21H3 Vertebrate Histology: Cells and Tissues or BIOC32H3 Human Physiology I] BIOC34H3 Human Physiology II: Lecture</p> <p>1.0 Credit of Advanced Biology Courses Choose From: BIOD17H3 Seminars in Cellular Microbiology BIOD26H3 Fungal Biology and Pathogenesis BIOD29H3 Pathobiology of Human Disease</p>	<p><i>Supervisor of Studies:</i> Shelley Brunt <i>Email:</i> paramedicine@utsc.utoronto.ca</p> <p>This program consists of 16.5 required credits and may be taken in fulfillment of the requirements of a four-year (20-credit) Honours Degree. Students taking this program must take an additional 3.5 credits of electives. When choosing electives keep in mind the minimum breadth requirements that must be met to complete a degree. It is advisable that, including electives, students plan to take 2.5 credits in each semester of their four year degree. Note that three of the PMD courses are 1 credit (Y courses) rather than 0.5 credit (H courses). Students who complete the requirements of the program will also qualify for the Paramedic Diploma from Centennial College. Students who have completed the requirements for Centennial's diploma are eligible to take the Ministry of Health exams required to qualify as a Primary Care Paramedic.</p> <p>Program Admission Limited enrolment. Applicants must fill out a Paramedicine Declaration form. Prior to taking courses at Centennial College, students must also fill out a medical certificate and have current qualifications in CPR and standard first aid. Other non-academic requirements such as a vulnerable sector police check, fitness standards and face mask fit certification will also ultimately be required. Additional details regarding these requirements may be found at Centennial's website or by contacting Walter Tavares at Centennial College (WTavares@centennialcollege.ca). Applicants may arrange to complete some of these requirements during their first year of study at the University of Toronto Scarborough. For more information on admission and deadlines, see the Joint Programs with Centennial College section of this <i>Calendar</i>.</p> <p>Program Requirements</p> <p>Notes:</p> <ol style="list-style-type: none"> In order to remain in the program, students must typically maintain a cumulative grade point average of at least 2.0. Students whose cumulative GPA falls below 2.0 should consult the program supervisor to discuss their options. Please note, space in some Centennial College courses is limited. Students who must repeat one of these courses and whose CGPA has fallen below 2.0 will be allowed to register in these courses only if space permits. Suggested course sequences follow below. <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.5 Credits of Core Biology Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Genetic Processes [(BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology]</p> <p>1.5 Credits of Foundational Biology Courses BIOC17H3 Microbiology [BIOC21H3 Vertebrate Histology: Cells and Tissues or BIOC32H3 Human Physiology I] BIOC34H3 Human Physiology II: Lecture</p> <p>1.0 Credit of Advanced Biology Courses Choose From: BIOD17H3 Seminars in Cellular Microbiology BIOD26H3 Fungal Biology and Pathogenesis BIOD29H3 Pathobiology of Human Disease</p>

[BIOD33H3](#) Comparative Animal Physiology
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System
[BIOD96Y3](#) Directed Research in Paramedicine

1.0 Credit of Introductory Chemistry Courses

[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit of Introductory Psychology Courses

[PSYA01H3](#) Introductory Psychology: Part I
[PSYA02H3](#) Introductory Psychology: Part II

1.0 Credit of B-Level Psychology Courses

[PSYB20H3](#) Introduction to Developmental Psychology
[PSYB32H3](#) Abnormal Psychology

1.0 Credit of Statistics/Data Analysis Courses

[STAB22H3](#) Statistics I or [PSYB07H3](#) Data Analysis in Psychology)
[PSYC08H3](#) Advanced Data Analysis in Psychology

7.5 Credits of Paramedicine Courses

*[PMDB22H3](#) Pre-Hospital Care 1: Theory and Lab
 *[PMDB25H3](#) Therapeutic Approaches to Behaviour in Crisis
 *[PMDB30H3](#) Alterations of Human Body Function I
 *[PMDB32Y3](#) Pre-Hospital Care 2: Theory, Lab and Clinical
 *[PMDB33H3](#) Anatomy
 *[PMDB36H3](#) Pharmacology for Allied Health Pre-requisite
 *[PMDB41H3](#) Professional Issues, Research and Leadership
 *[PMDC40H3](#) Alterations in Human Body Function II
 *[PMDC42Y3](#) Pre-Hospital Care 3: Theory, Lab and Field
 *[PMDC43H3](#) Medical Directed Therapeutics and Paramedic Responsibilities
 *[PMDC54Y3](#) Pre-Hospital Care 4: Theory, Lab and Field
 *[PMDC56H3](#) Primary Care Practice Integration and Decision Making

*A grade of 60% is required in these courses both to pass the course and to maintain standing in the program. All PMD courses are taught at Centennial College. Note, some PMD courses require that 60% be achieved in all components of the course (i.e., lecture component, practical component, and clinical-placement component).

Suggested Program Sequence

Note: Students may also take courses in the summer, when offered.

[BIOB10Y3](#) may be taken in the summer in place of [BIOB10H3](#) and [BIOB11H3](#).

Year 1: Fall Session

- [BIOA01H3](#) Life on Earth: Unifying Principles
- [CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
- [PSYA01H3](#) Introductory Psychology: Part I
- [PSYB07H3](#) Data Analysis in Psychology (fall) & 0.5 credits of elective courses
or
1.0 credits of elective courses

Year 1: Winter Session

- [BIOA02H3](#) Life on Earth: Form, Function and Interactions
- [CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
- [PSYA02H3](#) Introductory Psychology: Part II
- [STAB22H3](#) Statistics I & 0.5 credits of elective courses
or
1.0 credits of elective courses

Year 2: Fall Session

- [BIOB10H3](#) Cell Biology
- [PMDB33H3](#) Anatomy
- [PMDB22H3](#) Pre-Hospital Care 1: Theory and Lab
- [PMDB25H3](#) Therapeutic Approaches to Behaviour in Crisis
- [PMDB41H3](#) Professional Issues, Research and Leadership

Year 2: Winter Session

[BIOD33H3](#) Comparative Animal Physiology
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System
[BIOD96Y3](#) Directed Research in Paramedicine

1.0 Credit of Introductory Chemistry Courses

[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit of Introductory Psychology Courses

[PSYA01H3](#) Introductory Psychology: Part I
[PSYA02H3](#) Introductory Psychology: Part II

1.0 Credit of B-Level Psychology Courses

[PSYB20H3](#) Introduction to Developmental Psychology
[PSYB32H3](#) Abnormal Psychology

1.0 Credit of Statistics/Data Analysis Courses

[STAB22H3](#) Statistics I or [PSYB07H3](#) Data Analysis in Psychology)
[PSYC08H3](#) Advanced Data Analysis in Psychology

7.5 Credits of Paramedicine Courses

*[PMDB22H3](#) Pre-Hospital Care 1: Theory and Lab
 *[PMDB25H3](#) Therapeutic Approaches to Behaviour in Crisis
 *[PMDB30H3](#) Alterations of Human Body Function I
 *[PMDB32Y3](#) Pre-Hospital Care 2: Theory, Lab and Clinical
 *[PMDB33H3](#) Anatomy
 *[PMDB36H3](#) Pharmacology for Allied Health Pre-requisite
 *[PMDB41H3](#) Professional Issues, Research and Leadership
 *[PMDC40H3](#) Alterations in Human Body Function II
 *[PMDC42Y3](#) Pre-Hospital Care 3: Theory, Lab and Field
 *[PMDC43H3](#) Medical Directed Therapeutics and Paramedic Responsibilities
 *[PMDC54Y3](#) Pre-Hospital Care 4: Theory, Lab and Field
 *[PMDC56H3](#) Primary Care Practice Integration and Decision Making

*A grade of 60% is required in these courses both to pass the course and to maintain standing in the program. All PMD courses are taught at Centennial College. Note, some PMD courses require that 60% be achieved in all components of the course (i.e., lecture component, practical component, and clinical-placement component).

Suggested Program Sequence

Note: Students may also take courses in the summer, when offered.

[BIOB10Y3](#) may be taken in the summer in place of [BIOB10H3](#) and [BIOB11H3](#).

Year 1: Fall Session

- [BIOA01H3](#) Life on Earth: Unifying Principles
- [CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
- [PSYA01H3](#) Introductory Psychology: Part I
- [PSYB07H3](#) Data Analysis in Psychology (fall) & 0.5 credits of elective courses
or
1.0 credits of elective courses

Year 1: Winter Session

- [BIOA02H3](#) Life on Earth: Form, Function and Interactions
- [CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
- [PSYA02H3](#) Introductory Psychology: Part II
- [STAB22H3](#) Statistics I & 0.5 credits of elective courses
or
1.0 credits of elective courses

Year 2: Fall Session

- [BIOB10H3](#) Cell Biology
- [PMDB33H3](#) Anatomy
- [PMDB22H3](#) Pre-Hospital Care 1: Theory and Lab
- [PMDB25H3](#) Therapeutic Approaches to Behaviour in Crisis
- [PMDB41H3](#) Professional Issues, Research and Leadership

Year 2: Winter Session

- a. [BIOB11H3](#) Molecular Aspects of Genetic Processes
- b. [PMDB30H3](#) Alterations of Human Body Function I
- c. [PMDB32Y3](#) Pre-Hospital Care 2: Theory, Lab and Clinical
- d. [PMDB36H3](#) Pharmacology for Allied Health Pre-requisite

Year 3: Fall Session

- a. [\(BIOB30H3\)](#) Mammalian Physiology I or [BIOB34H3](#) Animal Physiology
- b. [PMDC40H3](#) Alterations in Human Body Function II
- c. [PMDC42Y3](#) Pre-Hospital Care 3: Theory, Lab and Field
- d. [PMDC43H3](#) Medical Directed Therapeutics and Paramedic Responsibilities

Year 3: Winter Session

- a. [BIOC17H3](#) Microbiology
- b. [BIOC34H3](#) Human Physiology II: Lecture
- c. [PMDC54Y3](#) Pre-Hospital Care 4: Theory, Lab and Field
- d. [PMDC56H3](#) Primary Care Practice Integration and Decision Making

Year 4: Fall Session*

- a. [BIOC21H3](#) Vertebrate Histology: Cells and Tissues or [BIOC32H3](#) Human Physiology I
- b. [PSYB20H3](#) Introduction to Developmental Psychology
- c. [PSYB32H3](#) Abnormal Psychology
- d. [BIOD33H3](#) Comparative Animal Physiology or [BIOD65H3](#) Pathologies of the Nervous System or [BIOD26H3](#) Fungal Biology and Pathogenesis or [BIOD96Y3](#) Directed Research in Paramedicine*]

Year 4: Winter Session*

- a. [PSYC08H3](#) Advanced Data Analysis in Psychology
- b. [BIOD17H3](#) Seminars in Cellular Microbiology or [BIOD43H3](#) Animal Movement and Exercise or [BIOD29H3](#) Pathobiology of Human Disease
- c. 0.5 credits of elective courses

***Note:** Students may take any 2 of these D-level courses to meet program requirements. The sequence here merely reflects current scheduling of courses in the various sessions.

- a. [BIOB11H3](#) Molecular Aspects of Genetic Processes
- b. [PMDB30H3](#) Alterations of Human Body Function I
- c. [PMDB32Y3](#) Pre-Hospital Care 2: Theory, Lab and Clinical
- d. [PMDB36H3](#) Pharmacology for Allied Health Pre-requisite

Year 3: Fall Session

- a. [BIOB34H3](#) Animal Physiology, or [\(BIOB30H3\)](#) Mammalian Physiology I
- b. [PMDC40H3](#) Alterations in Human Body Function II
- c. [PMDC42Y3](#) Pre-Hospital Care 3: Theory, Lab and Field
- d. [PMDC43H3](#) Medical Directed Therapeutics and Paramedic Responsibilities

Year 3: Winter Session

- a. [BIOC17H3](#) Microbiology
- b. [BIOC34H3](#) Human Physiology II: Lecture
- c. [PMDC54Y3](#) Pre-Hospital Care 4: Theory, Lab and Field
- d. [PMDC56H3](#) Primary Care Practice Integration and Decision Making

Year 4: Fall Session*

- a. [BIOC21H3](#) Vertebrate Histology: Cells and Tissues or [BIOC32H3](#) Human Physiology I
- b. [PSYB20H3](#) Introduction to Developmental Psychology
- c. [PSYB32H3](#) Abnormal Psychology
- d. [BIOD33H3](#) Comparative Animal Physiology or [BIOD65H3](#) Pathologies of the Nervous System or [BIOD26H3](#) Fungal Biology and Pathogenesis or [BIOD96Y3](#) Directed Research in Paramedicine*]

Year 4: Winter Session*

- a. [PSYC08H3](#) Advanced Data Analysis in Psychology
- b. [BIOD17H3](#) Seminars in Cellular Microbiology or [BIOD43H3](#) Animal Movement and Exercise or [BIOD29H3](#) Pathobiology of Human Disease
- c. 0.5 credits of elective courses

***Note:** Students may take any 2 of these D-level courses to meet program requirements. The sequence here merely reflects current scheduling of courses in the various sessions.

Program notes/tables

Program: SCMIN1126 - Compare

Code	SCMIN1126	SCMIN1126
Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	Studio	Studio
Title	MINOR PROGRAM IN STUDIO (ARTS)	MINOR PROGRAM IN STUDIO (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca</i></p> <p><i>Program Advisor: Y. Brotman; Email: ybrotman@utsc.utoronto.ca</i></p> <p>Enrolment in the Minor in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3.</p> <p>Program Requirements: Students are required to complete a total of four full credits as follows:</p> <ol style="list-style-type: none"> VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why is it Art? VPHA46H3 Ways of Seeing: Introduction to Art Histories VPSA70H3 Drawing I 1.0 credits at the B-level in VPS 0.5 credits from the following: <ul style="list-style-type: none"> VPSC66H3 Theory and Practice: Two-Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio An additional 0.5 credits at the C-level in VPS 	<p><i>Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca</i></p> <p>Enrolment in the Minor in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3.</p> <p>Program Requirements: Students are required to complete a total of four full credits as follows:</p> <ol style="list-style-type: none"> VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why is it Art? VPHA46H3 Ways of Seeing: Introduction to Art Histories VPSA70H3 Drawing I 1.0 credits at the B-level in VPS 0.5 credits from the following: <ul style="list-style-type: none"> VPSC66H3 Theory and Practice: Two-Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio An additional 0.5 credits at the C-level in VPS

Program notes/tables

Program: SCMIN0615 - Compare

Code	SCMIN0615	SCMIN0615
Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	Art History and Visual Culture	Art History and Visual Culture
Title	MINOR PROGRAM IN ART HISTORY (ARTS)	MINOR PROGRAM IN ART HISTORY AND VISUAL CULTURE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Undergraduate Advisor Email:</i> art-history-program-supervisor@utsc.utoronto.ca	<i>Undergraduate Advisor Email:</i> art-history-program-supervisor@utsc.utoronto.ca

Program Requirements

Students must complete 4.0 full credits from the courses below as follows:

1. [ACMA01H3](#) plus one half credit at the A-level in Art History.
2. [VPHB39H3](#)
3. 1.0 full credit at the B-level in Art History.
4. 1.5 full credits in Art History at the C- or D-level (which may include (VPAC47H3), (VPAC48H3), (VPAC89H3), and/or [HISC52H3](#)).

Program Requirements

This program requires the completion of 4.0 credits in Art History and Visual Culture (VPH) as follows:

1. **Courses at the A-level (0.5 credit):**
[VPHA46H3](#) Ways of Seeing: Introduction to Art Histories
2. **Courses at the B-level (2.0 credit):**
[ACMAB01H3](#) Critical Reading, Thinking and Writing for ACM Programs
[VPHB39H3](#) Ten Key Words in Art History: Unpacking Methodology
An additional 1.0 credit at the B-level in VPH courses
3. **Courses at the C- and or D-level (1.5 credits):**
1.5 credits at the C- or D-level in VPH courses

Program notes/tables

Program: SCMIN1590 - Compare

Code	SCMIN1590	SCMIN1590
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	Music and Culture	Music and Culture
Title	MINOR PROGRAM IN MUSIC AND CULTURE (ARTS)	MINOR PROGRAM IN MUSIC AND CULTURE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca

Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca

Program Requirements

Students are required to complete 4.0 full credits as follows:

1. [VPMA90H3](#) Materials of Music I
[VPMA93H3](#) Listening to Music
[VPMA99H3](#) Music of the World's Peoples
2. 0.5 credit in Performance. Students must choose the graded option for this credit.
3. 2.0 additional credits in Music, of which at least 1.0 credit must be at the C- and/or D-level. Students must consult with the Program Director regarding the selection of the courses to fulfill this program requirement. For performance courses, students must choose the graded option.

Program Requirements

Students are required to complete 4.0 full credits as follows:

1. [VPMA93H3](#) Listening to Music
0.5 credit in Performance. Students must choose the graded option for this credit
2. [ACMB01H3](#) Critical Reading, Thinking and Writing for ACM Programs
[VPMB82H3](#) Music in the Modern and Contemporary World or [VPMB99H3](#) Music of the World's Peoples
[VPMB88H3](#) Materials of Music I
3. 1.5 additional credits in Music and Culture (VPM) courses, of which at least 1.0 credit must be at the C- and/or D-level. Students must consult with the Program Director regarding the selection of the courses to fulfill this program requirement.

Program notes/tables

Program: SCSPE2432I - Compare

Code	SCSPE2432I	SCSPE2432I
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>This program which has a co-op option is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science. Please see the section regarding work term requirements for specific details on courses required before each work term.</p> <p>Program Requirements The Program requires the completion of 18.5 to 19.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed): MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or (MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)] MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit): [MATA32H3 and MATA33H3], strongly recommended or [MATA30H3/A31H3 and MATA35H3/A36H/A37H3]</p> <p>3. (5.0 credits): CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCA67H3 Discrete Mathematics CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Software CSCB20H3 Introduction to Databases and Web Applications CSCB36H3 Introduction to the Theory of Computation CSCC01H3 Introduction to Software Engineering MATA23H3 Linear Algebra I MATB24H3 Linear Algebra II</p> <p>4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses</p>	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>This program also has a co-op option and is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science. Please see the section regarding work term requirements for specific details on courses required before each work term.</p> <p>Program Requirements The Program requires the completion of 18.5 to 19.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed): MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)] MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit): [MATA32H3 and MATA33H3], strongly recommended or [MATA30H3/A31H3 and MATA35H3/A36H/A37H3]</p> <p>3. (5.0 credits): CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCA67H3 Discrete Mathematics CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Software CSCB20H3 Introduction to Databases and Web Applications CSCB36H3 Introduction to the Theory of Computation CSCC01H3 Introduction to Software Engineering MATA23H3 Linear Algebra I MATB24H3 Linear Algebra II</p> <p>4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses</p>

[excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)]

5. (0.5 credit):

[\[CSCD03H3](#) Social Impact of Information Technology or
[MGSC14H3](#)/(MGTC59H3) Management Ethics]

6. 1.0 credits at the D-level in Management, Economics or CSC courses.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

[excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)]

5. (0.5 credit):

[\[CSCD03H3](#) Social Impact of Information Technology or
[MGSC14H3](#)/(MGTC59H3) Management Ethics]

6. 1.0 credits at the D-level in Management, Economics or CSC courses.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCMAJ2540 - Compare

Code	SCMAJ2540	SCMAJ2540
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)	MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>This program requires 8.0 full credits of which at least 2.0 must be at the C- or D-level.</p> <ol style="list-style-type: none"> 1. Introduction to International Development Studies (0.5 credits) IDSA01H3 Introduction to International Development Studies 2. Core courses in International Development (1.5 credits) 1.5 full credits from the following: IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective (Students wishing to take IDSB01H3 should be aware that there are A-level prerequisites for this course.) 3. Methods for International Development Studies (1.5 credits) IDSC04H3 Project Management I 0.5 credits in quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB22H3 Statistics I 0.5 credits in qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies HLTC04H3 Critical Qualitative Health Research Methods GGRC31H3 Qualitative Geographical Methods: Place and Ethnography POLC78H3 Political Analysis I 4. Specialized Courses (4.5 credits) 4.5 credits from the courses listed in Requirement 5 of the B.A. version of the Specialist program in IDS with at least 1.0 credit from each of TWO of the clusters. POLB91H3 may be counted toward this requirement. 	<p>Program Requirements</p> <p>This program requires 8.0 full credits of which at least 2.0 must be at the C- or D-level.</p> <ol style="list-style-type: none"> 1. Introduction to International Development Studies (0.5 credits) IDSA01H3 Introduction to International Development Studies 2. Core courses in International Development (1.5 credits) 1.5 full credits from the following: IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective (Students wishing to take IDSB01H3 should be aware that there are A-level prerequisites for this course.) 3. Methods for International Development Studies (1.5 credits) IDSC04H3 Project Management I 0.5 credits in quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB23H3 Introduction to Statistics for the Social Sciences 0.5 credits in qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies HLTC04H3 Critical Qualitative Health Research Methods GGRC31H3 Qualitative Geographical Methods: Place and Ethnography POLC78H3 Political Analysis I 4. Specialized Courses (4.5 credits) 4.5 credits from the courses listed in Requirement 5 of the B.A. version of the Specialist program in IDS with at least 1.0 credit from each of TWO of the clusters. POLB91H3 may be counted toward this requirement.

Program notes/tables

Program: SCMIN1620 - Compare

Code	SCMIN1620	SCMIN1620
Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	English	English
Title	MINOR PROGRAM IN CREATIVE WRITING (ARTS)	MINOR PROGRAM IN CREATIVE WRITING (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor: D. Tysdal (416-287-7161) Email: dtysdal@utsc.utoronto.ca</i></p> <p>Program Requirements: Students must complete 4.0 credits as follows:</p> <p>1. 1.5 credits: ENGB03H3 Critical Thinking about Narrative ENGB04H3 Critical Thinking about Poetry [ENGB60H3] Creative Writing: Poetry I or ENGB61H3 Creative Writing: Fiction I]</p> <p>2. 2.5 credits to be selected from: ENGB60H3 Creative Writing: Poetry I (if not already counted as a required course) ENGB61H3 Creative Writing: Fiction I (if not already counted as a required course) ENGB63H3 Creative Non-Fiction I ENGC04H3 Creative Writing: Screenwriting ENGC05H3 Creative Writing: Poetry and New Media ENGC06H3 Creative Writing: Writing for Comics ENGC08H3 Special Topics in Creative Writing I ENGC86H3 Creative Writing: Poetry II ENGC87H3 Creative Writing: Fiction II ENGC88H3 Creative Non-Fiction II ENGD22H3 Special Topics in Creative Writing II ENGD26Y3 Independent Studies in Creative Writing: Poetry ENGD27Y3 Independent Studies in Creative Writing: Prose ENGD28Y3 Independent Studies in Creative Writing: Special Topics</p>	<p><i>Program Supervisor: D. Tysdal (416-287-7161) Email: dtysdal@utsc.utoronto.ca</i></p> <p>Program Requirements: Students must complete 4.0 credits as follows: A maximum of 1.0 credit in creating writing courses may be taken at another campus.</p> <p>1. 1.5 credits: ENGB03H3 Critical Thinking about Narrative ENGB04H3 Critical Thinking about Poetry [ENGB60H3] Creative Writing: Poetry I or ENGB61H3 Creative Writing: Fiction I]</p> <p>2. 2.5 credits to be selected from: ENGB60H3 Creative Writing: Poetry I (if not already counted as a required course) ENGB61H3 Creative Writing: Fiction I (if not already counted as a required course) ENGB63H3 Creative Non-Fiction I ENGC04H3 Creative Writing: Screenwriting ENGC05H3 Creative Writing: Poetry and New Media ENGC06H3 Creative Writing: Writing for Comics ENGC08H3 Special Topics in Creative Writing I ENGC86H3 Creative Writing: Poetry II ENGC87H3 Creative Writing: Fiction II ENGC88H3 Creative Non-Fiction II ENGD22H3 Special Topics in Creative Writing II ENGD26Y3 Independent Studies in Creative Writing: Poetry ENGD27Y3 Independent Studies in Creative Writing: Prose ENGD28Y3 Independent Studies in Creative Writing: Special Topics</p>

Program notes/tables

Program: SCMIN1908 - Compare

Code	SCMIN1908	SCMIN1908
Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	English	English
Title	MINOR PROGRAM IN LITERATURE AND FILM STUDIES (ARTS)	MINOR PROGRAM IN LITERATURE AND FILM STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor: A. Maurice (416-287-7180).</i></p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements 4.0 full credits in English are required</p> <p>1. 1.5 credit as follows: ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II</p> <p>2. 0.5 credits as follows: ENGA10H3 Introduction to Twentieth-Century Literature and Film: 1890 to World War II or ENGA11H3 Introduction to Twentieth-Century Literature and Film: 1945 to Today</p> <p>3. 1.0 credits at the C-or D-level, from the following: ENGC56H3 Literature and Media: From Page to Screen ENGC76H3 The Body in Literature and Film ENGC78H3 Dystopian Visions in Fiction and Film ENGC82H3 Cinema Studies: Themes and Theories ENGC83H3 Studies in World Cinema ENGD52H3 Cinema: The Auteur Theory ENGD62H3 Topics in Postcolonial Literature and Film ENGD91H3 Avant-Garde Cinema ENGD93H3 Theoretical Approaches to Cinema ENGD94H3 Stranger than Fiction: The Documentary Film</p> <p>4. 1.0 additional credits in English</p> <p>Note: Film courses selected from other departments and discipline will be approved for the Minor in Literature and Film Studies on a case-by-case basis.</p>	<p><i>Program Supervisor: A. Maurice (416-287-7180).</i></p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements 4.0 full credits in English are required</p> <p>1. 1.5 credit as follows: ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II</p> <p>2. 0.5 credits as follows: ENGA10H3 Introduction to Twentieth-Century Literature and Film: 1890 to World War II or ENGA11H3 Introduction to Twentieth-Century Literature and Film: 1945 to Today</p> <p>3. 1.0 credits at the C-or D-level, from the following: ENGC56H3 Literature and Media: From Page to Screen ENGC76H3 The Body in Literature and Film ENGC78H3 Dystopian Visions in Fiction and Film ENGC82H3 Cinema Studies: Themes and Theories ENGC83H3 Studies in World Cinema ENGD52H3 Cinema: The Auteur Theory ENGD62H3 Topics in Postcolonial Literature and Film ENGD91H3 Avant-Garde Cinema ENGD93H3 Theoretical Approaches to Cinema ENGD94H3 Stranger than Fiction: The Documentary Film ENGD96H3 Iranian Cinema</p> <p>4. 1.0 additional credits in English</p> <p>Note: Film courses selected from other departments and discipline will be approved for the Minor in Literature and Film Studies on a case-by-case basis.</p>

Program notes/tables

Program: SCSPE2156 - Compare

Code	SCSPE2156	SCSPE2156
Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	French	French
Title	SPECIALIST PROGRAM IN FRENCH (ARTS)	SPECIALIST PROGRAM IN FRENCH (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca</p> <p>This program is designed to provide students with a fundamental knowledge and grasp of principles and practices in core areas of French: language, grammar, linguistics, literature and culture.</p> <p>Enrolment in the CTEP program in French has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013/14 UTSC <i>Calendar</i>.</p> <p>Program Requirements</p> <p>This program requires 12.0 credits as follows including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level:</p> <ol style="list-style-type: none"> 4.0 credits consisting of: <ul style="list-style-type: none"> FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREC01H3 Language Practice V FREC02H3 Language Practice VI FRED01H3 Language Practice VII: Written French FRED06H3 Language Practice VIII: Oral French <p>(Except where substitution of other French credits is permitted for students with special proficiency in the French language)</p> 2.0 credits selected from: <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology (taught in French) FREB45H3 Introduction to Linguistics: French Morphology and Syntax (taught in French) FREB46H3 History of the French Language (taught in French) FREC12H3 Semantics: The Study of Meaning (taught in English) FREC46H3 Syntax II (taught in English) FREC47H3 Pidgin and Creole Languages (taught in English) FREC48H3 Sociolinguistics of French (taught in French) (FRED49H3) French Semantics 1.5 credits selected from: <ul style="list-style-type: none"> FREB22H3 The Society and Culture of Québec FREB27H3 Modern France FREB28H3 The Francophone World FREB70H3 Cinema of the French-Speaking World FREB84H3 Folktale, Myth and the Fantastic in the French-Speaking World FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World 3.0 credits in literature which must include: <ol style="list-style-type: none"> FREB50H3 Introduction to French Literature I FREB35H3 Francophone Literature 1.0 credit in literature from Québec, selected from the following: <ul style="list-style-type: none"> FREB36H3 The 20th Century Québec Novel FREB37H3 Contemporary Québec Drama FREC38H3 Topics in the Literature of Québec FRED14H3 Advanced Topics in the Literature of Québec 1.0 credit in French Literature, selected from the following: <ul style="list-style-type: none"> FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century FREB55H3 Literary History in Context: 18th and 19th Centuries FREC57H3 French Fiction of the 19th Century FREC58H3 Literature of the Ancienne Regime FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in France 	<p>For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca</p> <p>This program is designed to provide students with a fundamental knowledge and grasp of principles and practices in core areas of French: language, grammar, linguistics, literature and culture.</p> <p>Enrolment in the CTEP program in French has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013/14 UTSC <i>Calendar</i>.</p> <p>Program Requirements</p> <p>This program requires 12.0 credits as follows including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level:</p> <ol style="list-style-type: none"> 4.0 credits consisting of: <ul style="list-style-type: none"> FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREC01H3 Language Practice V FREC02H3 Language Practice VI FRED01H3 Language Practice VII: Written French FRED06H3 Language Practice VIII: Oral French <p>(Except where substitution of other French credits is permitted for students with special proficiency in the French language)</p> 2.0 credits selected from: <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology (taught in French) FREB45H3 Introduction to Linguistics: French Morphology and Syntax (taught in French) FREB46H3 History of the French Language (taught in French) FREC12H3 Semantics: The Study of Meaning (taught in English) FREC46H3 Syntax II (taught in English) FREC47H3 Pidgin and Creole Languages (taught in English) FREC48H3 Sociolinguistics of French (taught in French) (FRED49H3) French Semantics 1.5 credits selected from: <ul style="list-style-type: none"> FREB22H3 The Society and Culture of Québec FREB27H3 Modern France FREB28H3 The Francophone World FREB70H3 Cinema of the French-Speaking World FREB84H3 Folktale, Myth and the Fantastic in the French-Speaking World FREC54H3 Paris Through the Ages FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World 3.0 credits in literature which must include: <ol style="list-style-type: none"> FREB50H3 Introduction to French Literature I FREB35H3 Francophone Literature 1.0 credit in literature from Québec, selected from the following: <ul style="list-style-type: none"> FREB36H3 The 20th Century Québec Novel FREB37H3 Contemporary Québec Drama FREC38H3 Topics in the Literature of Québec FRED14H3 Advanced Topics in the Literature of Québec 1.0 credit in French Literature, selected from the following: <ul style="list-style-type: none"> FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century FREB55H3 Literary History in Context: 18th and 19th Centuries FREC57H3 French Fiction of the 19th Century FREC58H3 Literature of the Ancienne Regime FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in France

- [FREC64H3](#) French Fiction of the 20th and 21st Centuries
[FRED13H3](#) Advanced Topics in French Literature
5. 1.5 additional credits in French from either the above-mentioned courses (where not already taken) or from the list below:
- [FREB08H3](#) Practical Translation I
[FREB11H3](#) French Language in the School System
[FREB17H3](#) Spoken French: Conversation and Pronunciation
[FREB18H3](#) French in the Workplace
[FREB20H3](#) Teaching Children's Literature in French
[FREC11H3](#) Teaching French as a Second Language
[FREC18H3](#) Translation for Business and Professional Needs

Note: Specialist students (including CTEP) cannot obtain more than 0.5 credit (out of 12.0) by taking a course in English. This does not include CTEP courses taught in English through OISE.

- Foreign Cultures: Travel Writing in France
[FREC64H3](#) French Fiction of the 20th and 21st Centuries
[FRED13H3](#) Advanced Topics in French Literature
5. 1.5 additional credits in French from either the above-mentioned courses (where not already taken) or from the list below:
- [FREB08H3](#) Practical Translation I
[FREB11H3](#) French Language in the School System
[FREB17H3](#) Spoken French: Conversation and Pronunciation
[FREB18H3](#) Business French
[FREB20H3](#) Teaching Children's Literature in French
[FREC11H3](#) Teaching French as a Second Language
[FREC18H3](#) Translation for Business and Professional Needs

Note: Specialist students (including CTEP) cannot obtain more than 0.5 credit (out of 12.0) by taking a course in English. This does not include CTEP courses taught in English through OISE.

Program notes/tables

Program: SCMAJ2156 - Compare

Code	SCMAJ2156	SCMAJ2156
Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	French	French
Title	MAJOR PROGRAM IN FRENCH (ARTS)	MAJOR PROGRAM IN FRENCH (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca</p> <p>Program Requirements Students must complete 8.0 credits in French, of which at least 2.0 credits must be at the C- or D-level, including:</p> <ol style="list-style-type: none"> 3.5 credits as follows: <ul style="list-style-type: none"> FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREC01H3 Language Practice V FREC02H3 Language Practice VI FRED01H3 Language Practice VII: Written French or FRED06H3 Language Practice VIII: Oral French] (Students with special proficiency in the French language may substitute other FRE courses with the permission of the Associate Chair) 1.0 credit in Linguistics: <p>Linguistics courses taught in French are:</p> <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology FREB45H3 Introduction to Linguistics: French Morphology and Syntax FREB46H3 History of the French Language FREC48H3 Sociolinguistics of French <p>Linguistics courses taught in English are:</p> <ul style="list-style-type: none"> FREC12H3 Semantics: The Study of Meaning FREC46H3 Syntax II FREC47H3 Pidgin and Creole Languages 1.0 credit in Culture: <p>Culture courses are:</p> <ul style="list-style-type: none"> FREB22H3 The Society and Culture of Québec FREB27H3 Modern France FREB28H3 The Francophone World FREB70H3 Cinema of the French-Speaking World FREB84H3 Folktales, Myth and the Fantastic in the French-Speaking World FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World 2.5 additional credits in French as follows: <ol style="list-style-type: none"> FREB50H3 Introduction to Literature in French I <p>B) 1.0 credit in French Literature taken from the following:</p> <ul style="list-style-type: none"> FREB35H3 Francophone Literature FREB36H3 The 20th Century Québec Novel FREB37H3 Contemporary Québec Drama FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century FREB55H3 Literary History in Context: 18th and 19th Centuries FREC38H3 Topics in the Literature of Québec FREC58H3 Literature of the Ancien Regime FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French FREC64H3 French Fiction of the 20th and 21st Centuries FRED14H3 Advanced Topics in the Literature of Québec <p>C) 1.0 credit in French courses not already taken</p> <p>Note: At the A-level, only FREA01H3 and FREA02H3 may be counted towards a French Program.</p> <p>Note: For Co-op opportunities related to the Major Program in French please see the Humanities and Social Sciences Co-operative section in this <i>Calendar</i>.</p>	<p>For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca</p> <p>Program Requirements Students must complete 8.0 credits in French, of which at least 2.0 credits must be at the C- or D-level, including:</p> <ol style="list-style-type: none"> 3.5 credits as follows: <ul style="list-style-type: none"> FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREC01H3 Language Practice V FREC02H3 Language Practice VI FRED01H3 Language Practice VII: Written French or FRED06H3 Language Practice VIII: Oral French] (Students with special proficiency in the French language may substitute other FRE courses with the permission of the Associate Chair) 1.0 credit in Linguistics: <p>Linguistics courses taught in French are:</p> <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology FREB45H3 Introduction to Linguistics: French Morphology and Syntax FREB46H3 History of the French Language FREC48H3 Sociolinguistics of French <p>Linguistics courses taught in English are:</p> <ul style="list-style-type: none"> FREC12H3 Semantics: The Study of Meaning FREC46H3 Syntax II FREC47H3 Pidgin and Creole Languages 1.0 credit in Culture: <p>Culture courses are:</p> <ul style="list-style-type: none"> FREB22H3 The Society and Culture of Québec FREB27H3 Modern France FREB28H3 The Francophone World FREB70H3 Cinema of the French-Speaking World FREB84H3 Folktales, Myth and the Fantastic in the French-Speaking World FREC54H3 Paris Through the Ages FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World 2.5 additional credits in French as follows: <ol style="list-style-type: none"> FREB50H3 Introduction to Literature in French I <p>B) 1.0 credit in French Literature taken from the following:</p> <ul style="list-style-type: none"> FREB35H3 Francophone Literature FREB36H3 The 20th Century Québec Novel FREB37H3 Contemporary Québec Drama FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century FREB55H3 Literary History in Context: 18th and 19th Centuries FREC38H3 Topics in the Literature of Québec FREC58H3 Literature of the Ancien Regime FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French FREC64H3 French Fiction of the 20th and 21st Centuries FRED14H3 Advanced Topics in the Literature of Québec <p>C) 1.0 credit in French courses not already taken</p> <p>Note: At the A-level, only FREA01H3 and FREA02H3 may be counted towards a French Program.</p> <p>Note: For Co-op opportunities related to the Major Program in French please see the Humanities and Social Sciences Co-operative section in this <i>Calendar</i>.</p>

Note: Major students cannot obtain more than 0.5 credit (out of 8.0) by taking a course taught in English. in this *Calendar*.

Note: Major students cannot obtain more than 0.5 credit (out of 8.0) by taking a course taught in English.

Program notes/tables

Program: SCSPEGAS - Compare

Code	SCSPEGAS	SCSPEGAS
Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	Global Asia Studies	Global Asia Studies
Title	SPECIALIST PROGRAM IN GLOBAL ASIA STUDIES (ARTS)	SPECIALIST PROGRAM IN GLOBAL ASIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 12.0 credits as follows:</p> <p>1. 0.5 credit: GASA01H3/HISA06H3 Introducing Global Asia and its Histories or GASA02H3 Introduction to Global Asia Studies</p> <p>2. 8.0 credits from the courses listed below, of which 3.0 credits should be at the C-level (students should check course description for prerequisites): GASB05H3/MDSB05H3 Media and Globalization GASB15H3 The Arts of South Asia GASB20H3 Gender and Social Institutions in Asia GASB30H3 Asian Religions and Cultures GASB33H3 Global Buddhism in Historical and Contemporary Societies GASB34H3 Culture and Society in Classical South Asia GASB35H3 The Japanese Empire: A Short History GASB57H3/HISB57H3 Sub-Continental Histories: South Asia in the World GASB58H3/HISB58H3 Modern Chinese History GASB67H3/VPHB67H3 Religion in the Arts: Buddhist Arts and Cultures GASB73H3/VPHB73H3 Visualizing Asia GASB75H3/VPHB75H3 Religion in the Arts: Hinduism and Jainism GASB77H3/VPHB77H3 Asia in Display GASC19H3/(IEEC32H3)/WSTC19H3 Gender in East Asian Science and Technology GASC20H3 Gendering Global Asia GASC33H3 Critical Perspectives in Global Buddhism GASC40H3/MDSC40H3 Chinese Media and Politics GASC41H3/(IEEC21H3)/MDSC41H3 Media and Popular Culture in East and Southeast Asia GASC42H3 Film and Popular Culture in South Asia GASC43H3 Colonialisms and Cultures in Modern East Asia GASC45H3 Film and Popular Cultures in East Asia GASC50H3/HISC56H3 Comparative Studies of East Asian Legal Cultures GASC53H3/VPHC53H3 The Silk Routes GASC57H3/HISC57H3 China and the World GASC74H3/VPHC74H3 A Tale of Three Cities: Introduction to Contemporary Art in China</p> <p>3. At least 1.0 credit at the D-level from the courses listed below (students should check course description for prerequisites): GASD01H3 Senior Seminar: Topics in Global Asian Cultures GASD02H3 Senior Seminar: Topics in Global Asian Societies GASD03H3 Senior Seminar: Special Topics in Global Asia Studies GASD20H3/SOCD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies GASD40H3 Senior Seminar: Issues in Chinese Media Studies GASD47H3/VPHD47H3 Politics and East Asian Art GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire GASD58H3/HISD58H3 Culture, Politics, and Society in Late Imperial China GASD59H3 Law and Society in Chinese History (GASD46H3) Visual Encounter: The Meeting of Eastern and Western Art</p> <p>4. 2.5 credits from Asian language courses taught at the university, of which at least 1.5 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Specialist students who do not qualify for existing upper-level language</p>	<p><i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 12.0 credits, of which at least 4.0 credits must be at the C- or D-level, including at least 1.0 credit at the D-level:</p> <p>1. 0.5 credit: GASA01H3/HISA06H3 Introducing Global Asia and its Histories or GASA02H3 Introduction to Global Asia Studies</p> <p>2. 8.0 credits at the B- or C-level in GAS courses, of which 3.0 credits should be at the C-level (students should check course descriptions for prerequisites):</p> <p>3. At least 1.0 credit at the D-level in GAS courses (students should check course description for prerequisites):</p> <p>4. 2.5 credits from Asian language courses taught at the university, of which at least 1.5 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Specialist students who do not qualify for existing upper-level language courses at the university can (with prior written permission from the Program Supervisor) make up any necessary credits with other GAS courses.</p>

courses at the university can (with prior written permission from the Program Supervisor) make up any necessary credits with other GAS courses.

Program notes/tables

Program: SCMAJGAS - Compare

Code	SCMAJGAS	SCMAJGAS
Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	Global Asia Studies	Global Asia Studies
Title	MAJOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)	MAJOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i>	<i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i>

Program Requirements

Students must complete 7.0 full credits as follows:

1. 0.5 credit:

[GASA01H3/HISA06H3](#) Introducing Global Asia and its Histories
or
[GASA02H3](#) Introduction to Global Asia Studies

2. 4.5 credits from the courses listed below, of which at least 1.5 credits must be at the C-level and 1.0 at the D-level (students should check course description for prerequisites):

[GASB05H3](#)/[MDSB05H3](#) Media and Globalization
[GASB15H3](#) The Arts of South Asia
[GASB20H3](#) Gender and Social Institutions in Asia
[GASB30H3](#) Asian Religions and Cultures
[GASB33H3](#) Global Buddhism in Historical and Contemporary Societies
[GASB34H3](#) Culture and Society in Classical South Asia
[GASB35H3](#) The Japanese Empire: A Short History
[GASB57H3](#)/[HISB57H3](#) Sub-Continental Histories: South Asia in the World
[GASB58H3](#)/[HISB58H3](#) Modern Chinese History
[GASB67H3](#)/[VPHB67H3](#) Religion in the Arts: Buddhist Arts and Cultures
[GASB73H3](#)/[VPHB73H3](#) Visualizing Asia
[GASB75H3](#)/[VPHB75H3](#) Religion in the Arts: Hinduism and Jainism
[GASB77H3](#)/[VPHB77H3](#) Asia in Display
[GASC19H3](#)/[IIEEC32H3](#)/[WSTC19H3](#) Gender in East Asian Science and Technology
[GASC20H3](#) Gendering Global Asia
[GASC33H3](#) Critical Perspectives in Global Buddhism
[GASC40H3](#)/[MDSC40H3](#) Chinese Media and Politics
[GASC41H3](#)/[IIEEC21H3](#)/[MDSC41H3](#) Media and Popular Culture in East and Southeast Asia
[GASC42H3](#) Film and Popular Culture in South Asia
[GASC43H3](#) Colonialisms and Cultures in Modern East Asia
[GASC45H3](#) Film and Popular Cultures in East Asia
[GASC50H3](#)/[HISC56H3](#) Comparative Studies of East Asian Legal Cultures
[GASC53H3](#)/[VPHC53H3](#) The Silk Routes
[GASC57H3](#)/[HISC57H3](#) China and the World
[GASC74H3](#)/[VPHC74H3](#) A Tale of Three Cities: Introduction to Contemporary Art in China
[GASD01H3](#) Senior Seminar: Topics in Global Asian Cultures
[GASD02H3](#) Senior Seminar: Topics in Global Asian Societies
[GASD03H3](#) Senior Seminar: Special Topics in Global Asia Studies
[GASD20H3](#)/[SOCD20H3](#) Advanced Seminar: Social Change and Gender Relations in Chinese Societies
[GASD40H3](#) Senior Seminar: Issues in Chinese Media Studies
[GASD47H3](#)/[VPHD47H3](#) Politics and East Asian Art
[GASD56H3](#) 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
[GASD59H3](#) Law and Society in Chinese History

3. 2.0 credits from: Asian language courses taught at the university, of which at least 1.0 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Major students who do not qualify for existing upper-level language courses at the university can (with prior written permission of the Program Supervisor) make up any necessary credits with other GAS courses.

Program Requirements

Students must complete 7.0 credits as follows:

1. 0.5 credit:

[GASA01H3/HISA06H3](#) Introducing Global Asia and its Histories
or
[GASA02H3](#) Introduction to Global Asia Studies

2. 4.5 credits in GAS courses, of which at least 1.5 credits must be at the C-level and 1.0 at the D-level (students should check course description for prerequisites):

3. 2.0 credits from: Asian language courses taught at the university, of which at least 1.0 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Major students who do not qualify for existing upper-level language courses at the university can (with prior written permission of the Program Supervisor) make up any necessary credits with other GAS courses.

Program notes/tables

Program: SCMINGAS - Compare

Code	SCMINGAS	SCMINGAS
Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	Global Asia Studies	Global Asia Studies
Title	MINOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)	MINOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i>	<i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i>
Program Requirements	Students must complete 4.0 full credits as follows:	Students must complete 4.0 credits as follows:
1. 0.5 credit:	1. 0.5 credit:	1. 0.5 credit:
GASA01H3/HISA06H3 Introducing Global Asia and its Histories	GASA01H3/HISA06H3 Introducing Global Asia and its Histories	GASA01H3/HISA06H3 Introducing Global Asia and its Histories
or	or	or
GASA02H3 Introduction to Global Asia Studies	GASA02H3 Introduction to Global Asia Studies	GASA02H3 Introduction to Global Asia Studies
2. For the remaining 3.5 credits, students have two options:	2. For the remaining 3.5 credits, students have two options:	2. For the remaining 3.5 credits, students have two options:
<ul style="list-style-type: none"> complete 3.5 credits from the courses listed below, of which at least 1.5 credits must be from C- and/or D-level courses listed below; or complete 2.5 credits from the courses listed below, of which at least 1.0 credit must be from C- and/or D-level courses listed below, plus 1.0 credit from Asian language courses. 	<ul style="list-style-type: none"> complete 3.5 credits in GAS courses, of which at least 1.5 credits must be at the C- or D-level; or complete 2.5 credits in GAS courses, of which at least 1.0 credit must be at the C- or D-level, plus 1.0 credit from Asian language courses. 	<ul style="list-style-type: none"> complete 3.5 credits in GAS courses, of which at least 1.5 credits must be at the C- or D-level; or complete 2.5 credits in GAS courses, of which at least 1.0 credit must be at the C- or D-level, plus 1.0 credit from Asian language courses.
GASB05H3/MDSB05H3 Media and Globalization GASB15H3 The Arts of South Asia GASB30H3 Asian Religions and Cultures GASB33H3 Global Buddhism in Historical and Contemporary Societies GASB34H3 Culture and Society in Classical South Asia GASB35H3 The Japanese Empire: A Short History GASB57H3/HISB57H3 Sub-Continental Histories: South Asia in the World GASB58H3/HISB58H3 Modern Chinese History GASB67H3/VPHB67H3 Religion in the Arts: Buddhist Arts and Cultures GASB73H3/VPHB73H3 Visualizing Asia GASB75H3/VPHB75H3 Religion in the Arts: Hinduism and Jainism GASB77H3/VPHB77H3 Asia in Display GASC19H3/(IEEC32H3)/WSTC19H3 Gender in East Asian Science and Technology GASC20H3 Gendering Global Asia GASC33H3 Critical Perspective in Global Buddhism GASC40H3/MDSC40H3 Chinese Media and Politics GASC41H3/(IEEC21H3)/MDSC41H3 Media and Popular Culture in East and Southeast Asia GASC42H3 Film and Popular Culture in South Asia GASC43H3 Colonialisms and Cultures in Modern East Asia GASC45H3 Film and Popular Cultures in East Asia GASC50H3/HISC56H3 Comparative Studies of East Asian Legal Cultures GASC53H3/VPHC53H3 The Silk Routes GASC57H3/HISC57H3 China and the World GASC74H3/VPHC74H3 A Tale of Three Cities: Introduction to Contemporary Art in China GASD01H3 Senior Seminar: Topics in Global Asian Cultures GASD02H3 Senior Seminar: Topics in Global Asian Societies GASD03H3 Senior Seminar: Special Topics in Global Asia Studies GASD20H3/SOCD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies GASD40H3 Senior Seminar: Issues in Chinese Media Studies GASD47H3/VPHD47H3 Politics and East Asian Art GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire GASD58H3/HISD58H3 Culture, Politics, and Society in Late Imperial China GASD59H3 Law and Society in Chinese History		

Program notes/tables

Program: SCMAJCIT - Compare

Code	SCMAJCIT	SCMAJCIT
Owning Organizations	CIT,GGRSC	CIT,GGRSC
Sections	City Studies	City Studies
Title	MAJOR PROGRAM IN CITY STUDIES (ARTS)	MAJOR PROGRAM IN CITY STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Guidelines for Major Program Completion
 The City Studies curriculum has three areas of concentration: (1) City-Building, (2) Community Development and (3) City Governance.

 Major students are welcome to take courses in more than one area of concentration and are encouraged to take at least three of the **City Studies core courses, CITB02H3 Foundations of City Studies (required for all Major students in City Studies), CITB01H3 Canadian Cities and Planning, CITB03H3 Social Planning and Community Development, CITB04H3 City Politics, or CITB08H3 Economy of Cities.** These core courses cover foundational concepts of the program and are considered essential preparation for upper level courses:

Guidelines for Major Program Completion
 The City Studies curriculum has three areas of concentration: (1) City-Building, (2) Community Development and (3) City Governance.

 Major students are welcome to take courses in more than one area of concentration and are encouraged to take at least three of the **City Studies core courses, CITB02H3 Foundations of City Studies (required for all Major students in City Studies), CITB01H3 Canadian Cities and Planning, CITB03H3 Social Planning and Community Development, CITB04H3 City Politics, or CITB08H3 Economy of Cities.** These core courses cover foundational concepts of the program and are considered essential preparation for upper level courses:

City Building	Community Development	City Governance	City Building	Community Development	City Governance
CITC03H3 Real Estate and the City CITC04H3 Municipal and Planning Law in Ontario CITC14H3 Environmental Planning CITC18H3 Transportation Policy Analysis	CITC01H3 Urban Communities and Neighbourhoods Case Study CITC02H3 Learning in Community Service CITC07H3 Urban Social Policy CITC08H3 Cities and Community Development	CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking CITC15H3 Taxing and Spending: Public Finance in Canadian Cities CITC16H3 Planning and Governing the Metropolis CITC17H3 Civic Engagement in Urban Politics	CITC03H3 Real Estate and the City CITC04H3 Municipal and Planning Law in Ontario CITC14H3 Environmental Planning CITC18H3 Transportation Policy Analysis	CITC01H3 Urban Communities and Neighbourhoods Case Study CITC02H3 Learning in Community Service CITC07H3 Urban Social Policy CITC08H3 Cities and Community Development	CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking CITC15H3 Taxing and Spending: Public Finance in Canadian Cities CITC16H3 Planning and Governing the Metropolis CITC17H3 Civic Engagement in Urban Politics

Note: It is Department policy that students without the prerequisite will be removed from the course. Students should carefully check the prerequisites required for particular B-and C-level courses.

Note: It is Department policy that students without the prerequisite will be removed from the course. Students should carefully check the prerequisites required for particular B-and C-level courses.

Note: That some upper-level courses (e.g. SOC and ECM) are part of limited enrolment programs, with first preference in these courses going to students enrolled in those programs.

Note: That some upper-level courses (e.g. SOC and ECM) are part of limited enrolment programs, with first preference in these courses going to students enrolled in those programs.

Program Requirements
 This program requires a total of 7.0 full credits.

Program Requirements
 This program requires a total of 7.0 full credits.

- 1. Introduction to Social Science Thought (1.0 full credit from among the following):**
[ANTA01H3](#) Introduction to Anthropology: Becoming Human
[ANTA02H3](#) Introduction to Anthropology: Culture, Society and Language
[POLA01H3](#) Critical Issues in Politics I
[POLA02H3](#) Critical Issues in Politics II
[SOCA01H3](#) Introduction to Sociology I
[SOCA02H3](#) Introduction to Sociology II
[GGRA02H3](#) The Geography of Global Processes
[GGRA03H3](#) Cities and Environments
[MGEA01H3](#)/(ECMA01H3) Introduction to Microeconomics or [MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#)/(ECMA05H3) Introduction to Macroeconomics or [MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]

- 1. Introduction to Social Science Thought (1.0 full credit from among the following):**
[ANTA01H3](#) Introduction to Anthropology: Becoming Human
[ANTA02H3](#) Introduction to Anthropology: Culture, Society and Language
[POLA01H3](#) Critical Issues in Politics I
[POLA02H3](#) Critical Issues in Politics II
[SOCA01H3](#) Introduction to Sociology I
[SOCA02H3](#) Introduction to Sociology II
[GGRA02H3](#) The Geography of Global Processes
[GGRA03H3](#) Cities and Environments
[MGEA01H3](#)/(ECMA01H3) Introduction to Microeconomics or [MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#)/(ECMA05H3) Introduction to Macroeconomics or [MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]

2. Core courses (1.5 full credits including)

[CITB02H3](#) Foundations of City Studies
and

1.0 credits from among the following:

- [CITB01H3](#) Canadian Cities and Planning
[CITB03H3](#) Social Planning and Community Development
[CITB04H3](#) City Politics
[CITB08H3](#) Economy of Cities

3. Fundamentals of City Studies (at least 1.5 full credits from among the following):

[[EESA05H3](#) Environmental Hazards or [EESA06H3](#) Introduction to Planet Earth]

- [GGRB02H3](#) The Logic of Geographic Thought
[GGRB05H3](#) Urban Geography
[GGRB13H3](#) Social Geography
[GGRB28H3](#) Geographies of Disease
[POLB50Y3](#) Canadian Government and Politics
[SOCB44H3](#) Sociology of Cities and Urban Life
[WSTB12H3](#) Women, Violence and Resistance

4. Methods (1.0 full credit):

[STAB22H3](#) Statistics I or equivalent

0.5 credit from the following:

- [GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I
[GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography

5. Applications (at least 2.0 full credits from among the following):

- [CITC01H3](#) Urban Communities and Neighbourhoods Case Study: East Scarborough
[CITC02H3](#) Learning In Community Service
[CITC03H3](#) Real Estate and the City
[CITC04H3](#) Municipal and Planning Law in Ontario
[CITC05H3](#) City Studies Workshop I
[CITC06H3](#) City Studies Workshop II
[CITC07H3](#) Urban Social Policy
[CITC08H3](#) Cities and Community Development
[CITC10H3](#) Selected Issues in City Studies
[CITC12H3](#) City Structures and City Choices: Local Government, Management, and Policy Making
[CITC14H3](#) Environmental Planning
[CITC15H3](#) Taxing and Spending: Public Finance in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC17H3](#) Civic Engagement in Municipal Politics
[CITC18H3](#) Urban Transportation Policy Analysis
[CITD01H3](#) City Issues and Strategies
[CITD10H3](#) Seminar in Selected Issues in City Studies
[CITD30H3](#) Supervised Research Project
[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area
[GGRC02H3](#) Population Geography
[GGRC10H3](#) Urbanization and Development
[GGRC11H3](#) Current Topics in Urban Geography
[GGRC12H3](#) Transportation Geography
[GGRC13H3](#) Urban Political Geography
[GGRC27H3](#) Location and Spatial Development
[GGRC33H3](#) The Toronto Region
[GGRC40H3](#) Megacities and Global Urbanization
[GGRC48H3](#) Geographies of Urban Poverty
[GGRD09H3](#) Feminist Geographies
[GGRD14H3](#) Social Justice and the City
[HISC58H3](#) Delhi and London: Imperial Cities, Mobile People
[POLC53H3](#) Canadian Environmental Policy
[PPGC66H3](#)/(POLC66H3) Public Policy Making
[PPGC67H3](#)/(POLC67H3) Public Policy in Canada
[SOCC26H3](#) Sociology of Urban Cultural Policies

2. Core courses (1.5 full credits including)

[CITB02H3](#) Foundations of City Studies
and

1.0 credits from among the following:

- [CITB01H3](#) Canadian Cities and Planning
[CITB03H3](#) Social Planning and Community Development
[CITB04H3](#) City Politics
[CITB08H3](#) Economy of Cities

3. Fundamentals of City Studies (at least 1.5 full credits from among the following):

[[EESA05H3](#) Environmental Hazards or [EESA06H3](#) Introduction to Planet Earth]

- [GGRB02H3](#) The Logic of Geographic Thought
[GGRB05H3](#) Urban Geography
[GGRB13H3](#) Social Geography
[GGRB28H3](#) Geographies of Disease
[POLB50Y3](#) Canadian Government and Politics
[SOCB44H3](#) Sociology of Cities and Urban Life
[WSTB12H3](#) Women, Violence and Resistance

4. Methods (1.0 full credit):

[STAB23H3](#) Introduction to Statistics for the Social Sciences

0.5 credit from the following:

- [GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I
[GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography

5. Applications (at least 2.0 full credits from among the following):

- [CITC01H3](#) Urban Communities and Neighbourhoods Case Study: East Scarborough
[CITC02H3](#) Learning In Community Service
[CITC03H3](#) Real Estate and the City
[CITC04H3](#) Municipal and Planning Law in Ontario
[CITC07H3](#) Urban Social Policy
[CITC08H3](#) Cities and Community Development
[CITC10H3](#) Selected Issues in City Studies
[CITC12H3](#) City Structures and City Choices: Local Government, Management, and Policy Making
[CITC14H3](#) Environmental Planning
[CITC15H3](#) Taxing and Spending: Public Finance in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC17H3](#) Civic Engagement in Municipal Politics
[CITC18H3](#) Urban Transportation Policy Analysis
[CITD01H3](#) City Issues and Strategies
[CITD05H3](#) City Studies Workshop I
[CITD06H3](#) City Studies Workshop II
[CITD10H3](#) Seminar in Selected Issues in City Studies
[CITD30H3](#) Supervised Research Project
[ANTC18H3](#) Urban Anthropology
[EESD20H3](#) Urban Environmental Problems of the Greater Toronto Area
[GGRC02H3](#) Population Geography
[GGRC10H3](#) Urbanization and Development
[GGRC11H3](#) Current Topics in Urban Geography
[GGRC12H3](#) Transportation Geography
[GGRC13H3](#) Urban Political Geography
[GGRC27H3](#) Location and Spatial Development
[GGRC33H3](#) The Toronto Region
[GGRC40H3](#) Megacities and Global Urbanization
[GGRC48H3](#) Geographies of Urban Poverty
[GGRD09H3](#) Feminist Geographies
[GGRD14H3](#) Social Justice and the City
[HISC58H3](#) Delhi and London: Imperial Cities, Mobile People
[POLC53H3](#) Canadian Environmental Policy
[PPGC66H3](#)/(POLC66H3) Public Policy Making
[PPGC67H3](#)/(POLC67H3) Public Policy in Canada

[SOCC27H3](#) Sociology of Suburbs and Suburbanization
[WSTC14H3](#) Women, Community, and Policy Change
[WSTC20H3](#) Women and Environments

[SOCC26H3](#) Sociology of Urban Cultural Policies
[SOCC27H3](#) Sociology of Suburbs and Suburbanization
[WSTC14H3](#) Women, Community, and Policy Change
[WSTC20H3](#) Women and Environments

Program notes/tables

Program: SCMAJ1666H - Compare

Code	SCMAJ1666H	SCMAJ1666H
Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	Geography	Geography
Title	MAJOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)	MAJOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>A Major Program for students interested in Human Geography as an academic discipline. This Program equips students with the knowledge and skills needed to understand contemporary social science thought in the context of the communities, societies, and economies formed by human populations, and the ways in which location, landscape, and spatial context shape (and are shaped by) social structures, functioning, and behaviour.</p> <p><i>Guidelines for 1st year course selection</i></p> <p>Students intending to complete the Major Program in Human Geography are required to take two of GGRA02H3, GGRA03H3 or GGRA35H3. Enrollment in GGRA35H3 is limited and restricted to first year students. Students are also encouraged to take GGRA30H3 in their first year as a methods course.</p> <p><i>Guidelines for Major Program completion:</i></p> <p>Courses in the Major Program in Human Geography are divided into three main subdisciplinary areas of focus: Urban Geography, Social/Cultural Geography and Environmental Geography. Major students are encouraged to focus on two areas of focus after second year.</p>	<p>A Major Program for students interested in Human Geography as an academic discipline. This Program equips students with the knowledge and skills needed to understand contemporary social science thought in the context of the communities, societies, and economies formed by human populations, and the ways in which location, landscape, and spatial context shape (and are shaped by) social structures, functioning, and behaviour.</p> <p><i>Guidelines for 1st year course selection</i></p> <p>Students intending to complete the Major Program in Human Geography are required to take two of GGRA02H3, GGRA03H3 or GGRA35H3. Enrollment in GGRA35H3 is limited and restricted to first year students. Students are also encouraged to take GGRA30H3 in their first year as a methods course.</p> <p><i>Guidelines for Major Program completion:</i></p> <p>Courses in the Major Program in Human Geography are divided into three main subdisciplinary areas of focus: Urban Geography, Social/Cultural Geography and Environmental Geography. Major students are encouraged to focus on two areas of focus after second year.</p>
Program Requirements	<p>The Major Program in Human Geography requires a total of 7.0 full credits as follows:</p> <ol style="list-style-type: none"> Foundations of Human Geography (1.0 credit from the following): <ul style="list-style-type: none"> GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience Theory and Concepts in Human Geography (2.0 credit): <ul style="list-style-type: none"> GGRB02H3 The Logic of Geographical Thought and 1.5 credits from: <ul style="list-style-type: none"> GGRB05H3 Urban Geography GGRB13H3 Social Geography GGRB21H3 Environments and Environmentalisms GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography Methods (1.0 credit from the following): <ul style="list-style-type: none"> GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB03H3 Writing Geography: From Good to Great GGRB30H3 Fundamentals of GIS I GGRB32H3 Fundamentals of GIS II GGRC31H3 Qualitative Geographical Methods: Place and Ethnography STAB22H3 Statistics or equivalent Applications (2.5 credits): <ul style="list-style-type: none"> 2.5 credits at the C- and/or D-level in GGR courses Advanced Applications (0.5 credit): <ul style="list-style-type: none"> 0.5 credit at the D-level in GGR courses 	<p>The Major Program in Human Geography requires a total of 7.0 full credits as follows:</p> <ol style="list-style-type: none"> Foundations of Human Geography (1.0 credit from the following): <ul style="list-style-type: none"> GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience Theory and Concepts in Human Geography (2.0 credit): <ul style="list-style-type: none"> GGRB02H3 The Logic of Geographical Thought and 1.5 credits from: <ul style="list-style-type: none"> GGRB05H3 Urban Geography GGRB13H3 Social Geography GGRB21H3 Environments and Environmentalisms GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography Methods (1.0 credit from the following): <ul style="list-style-type: none"> GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB03H3 Writing Geography: From Good to Great GGRB30H3 Fundamentals of GIS I GGRB32H3 Fundamentals of GIS II GGRC31H3 Qualitative Geographical Methods: Place and Ethnography STAB23H3 Introduction to Statistics for the Social Sciences Applications (2.5 credits): <ul style="list-style-type: none"> 2.5 credits at the C- and/or D-level in GGR courses Advanced Applications (0.5 credit): <ul style="list-style-type: none"> 0.5 credit at the D-level in GGR courses

Program notes/tables

Program: SCMAJ1060 - Compare

Code	SCMAJ1060	SCMAJ1060
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MAJOR PROGRAM IN PLANT BIOLOGY (SCIENCE)	MAJOR PROGRAM IN PLANT BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> Dan Riggs; <i>Email:</i> riggs@utsc.utoronto.ca</p> <p>The Major in Plant Biology provides a broad education in all areas of contemporary biology, and affords students an opportunity to concentrate on courses in upper years that are focused on plant biology. This program is suitable for students with an interest in the biochemistry, biotechnology, cell biology, ecology, evolution, genetics, physiology, and/or development of plants.</p> <p>Program Requirements: Students are required to complete a total of 8.5 credits.</p> <p>Required Courses and Suggested Course Sequence:</p> <p><i>First Year</i></p> <p>1.0 credit in Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 credit in Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 credit in Statistics Choose From: STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 credits in Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB38H3 Plants and Society BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p><i>Second Year</i></p> <p>0.5 credit in Biology Core Labs Choose from: BIOB12H3 Cell and Molecular Biology Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>2.0 credits BIOC31H3 Plant Development and Biotechnology BIOC37H3 Plants: Life on the Edge BIOC40H3 Plant Physiology [BIOC15H3 Genetics or BIOC17H3 Microbiology or BIOC50H3 Macroevolution]</p> <p><i>Third/ Fourth Year</i></p> <p>0.5 credits; choose from: BIOC61H3 Community Ecology and Environmental Biology BIOD21H3 Advanced Molecular Biology Laboratory BIOD37H3 Biology of Plant Stress BIOD62H3 Species and Speciation BIOD26H3 Fungal Biology and Pathogenesis</p> <p><i>Fourth Year</i></p> <p>0.5 credit Choose from: BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems or [any of the following research-based courses if the research utilizes plants: BIOC99H3, BIOD95H3, BIOD98Y3 or BIOD99Y3]</p>	<p><i>Supervisor:</i> Dan Riggs; <i>Email:</i> riggs@utsc.utoronto.ca</p> <p>The Major in Plant Biology provides a broad education in all areas of contemporary biology, and affords students an opportunity to concentrate on courses in upper years that are focused on plant biology. This program is suitable for students with an interest in the biochemistry, biotechnology, cell biology, ecology, evolution, genetics, physiology, and/or development of plants.</p> <p>Program Requirements: Students are required to complete a total of 8.5 credits.</p> <p>Required Courses and Suggested Course Sequence:</p> <p><i>First Year</i></p> <p>1.0 credit in Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 credit in Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 credit in Statistics Choose From: STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 credits in Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB38H3 Plants and Society BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p><i>Second Year</i></p> <p>0.5 credit in Biology Core Labs Choose from: BIOB12H3 Cell and Molecular Biology Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>2.0 credits BIOC31H3 Plant Development and Biotechnology BIOC37H3 Plants: Life on the Edge BIOC40H3 Plant Physiology [BIOC15H3 Genetics or BIOC17H3 Microbiology or BIOC50H3 Macroevolution]</p> <p><i>Third/ Fourth Year</i></p> <p>0.5 credits; choose from: BIOC61H3 Community Ecology and Environmental Biology BIOD21H3 Advanced Molecular Biology Laboratory BIOD37H3 Biology of Plant Stress BIOD62H3 Species and Speciation BIOD26H3 Fungal Biology and Pathogenesis</p> <p><i>Fourth Year</i></p> <p>0.5 credit Choose from: BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems or [any of the following research-based courses if the research utilizes plants: BIOC99H3, BIOD95H3, BIOD98Y3 or BIOD99Y3]</p>

Program: SCMIN0580 - Compare

Code	SCMIN0580	SCMIN0580
Owning Organizations	HCSSC,FST	HCSSC,FST
Sections	Food Studies	Food Studies
Title	MINOR PROGRAM IN FOOD STUDIES (ARTS)	MINOR PROGRAM IN FOOD STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete at least 4.0 credits in Food Studies-focused courses, including the following:</p> <ol style="list-style-type: none"> 1. FSTB01H3 Introduction to Food Studies 2. At least 2.0 credits in C- or D-level courses 3. 0.5 credit at the D-level in courses taught in the Culinaria Kitchen Laboratory* <p>*See the table above for courses taught in the Culinaria Kitchen Laboratory.</p>	<p><i>Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete at least 4.0 credits in Food Studies-focused courses, including the following:</p> <ol style="list-style-type: none"> 1. FSTB01H3 Introduction to Food Studies 2. At least 2.0 credits in C- or D-level courses 3. 0.5 credit at the D-level in courses taught in the Culinaria Kitchen Laboratory* <p>*See the table above for courses taught in the Culinaria Kitchen Laboratory.</p>

Program notes/tables

Program: SCSPECIT - Compare

Code	SCSPECIT	SCSPECIT
Owning Organizations	CIT,GGRSC	CIT,GGRSC
Sections	City Studies	City Studies
Title	SPECIALIST PROGRAM IN CITY STUDIES (ARTS)	SPECIALIST PROGRAM IN CITY STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Admission Requirements	Enrolment in the Specialist is limited. Students may apply to enter the program after they have completed at least 4.0 credits, including the courses listed under Requirement 1 of the program. Admission will be determined on the basis of a student's overall Grade Point Average (GPA) and grades in the courses in Requirement 1 of the program. For students applying with more 8-10 credits, admission will be on the basis of overall GPA and grades in all City Studies (CIT) courses taken. Decisions regarding program admissions will be made only twice a year, in May and August, by the City Studies Supervisor of Studies, and will be based on student requests submitted to the Registrar through ROSI.	Enrolment in the Specialist is limited. Students may apply to enter the program after they have completed at least 4.0 credits, including the courses listed under Requirement 1 of the program. Admission will be determined on the basis of a student's overall Grade Point Average (GPA) and grades in the courses in Requirement 1 of the program. For students applying with more 8-10 credits, admission will be on the basis of overall GPA and grades in all City Studies (CIT) courses taken. Decisions regarding program admissions will be made only twice a year, in May and August, by the City Studies Supervisor of Studies, and will be based on student requests submitted to the Registrar through ROSI.

Description

The Specialist program in City Studies (BA) is intended for high achieving students, and will provide them with the skills and knowledge they will need to pursue specialized training at the graduate level in fields like public policy and municipal governance, urban planning, community development, as well as other city-focused fields of studies. Students in the Specialist program will also have the opportunity to develop the in-depth theoretical and conceptual knowledge in applied urban studies, quantitative and qualitative research and GIS skills, practical skills such as project management, facilitation and community consultation, and communication skills needed to succeed in a wide variety of urban professions. Students are encouraged to discuss the selection and sequencing of courses with the Program Advisor or Associate Chair (City Studies).

Program Requirements:

This program requires the completion of 12.0 credits as follows:

1. Introduction to Social Science Thought (1.0 credit from among the following):

[ANTA01H3](#) Introduction to Anthropology: Becoming Human
[ANTA02H3](#) Introduction to Anthropology: Culture, Society and Language
[GGRA02H3](#) The Geography of Global Processes
[GGRA03H3](#) Cities and Environments
[MGEA01H3](#)/(ECMA01H3) Introduction to Microeconomics
or [MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#)/(ECMA05H3) Introduction to Macroeconomics
or [MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]
[POLA01H3](#) Critical Issues in Politics I
[POLA02H3](#) Critical Issues in Politics II
[SOCA01H3](#) Introduction to Sociology I
[SOCA02H3](#) Introduction to Sociology II

2. Core courses (2.0 credits as follows):

[CITB02H3](#) Foundations of City Studies
and 1.5 credits from among the following:
[CITB01H3](#) Canadian Cities and Planning
[CITB03H3](#) Social Planning and Community Development
[CITB04H3](#) City Politics
[CITB08H3](#) Economy of Cities

3. City Studies Fundamentals (3.5 credits from among the following):

[CITC01H3](#) Urban Communities and Neighbourhoods Case Study
[CITC02H3](#) Learning in Community Service
[CITC03H3](#) Real Estate and the City
[CITC04H3](#) Municipal and Planning Law in Ontario
[CITC07H3](#) Urban Social Policy
[CITC08H3](#) Cities and Community Development
[CITC12H3](#) City Structures and City Choices: Local Government,

The Specialist program in City Studies (BA) is intended for high achieving students, and will provide them with the skills and knowledge they will need to pursue specialized training at the graduate level in fields like public policy and municipal governance, urban planning, community development, as well as other city-focused fields of studies. Students in the Specialist program will also have the opportunity to develop the in-depth theoretical and conceptual knowledge in applied urban studies, quantitative and qualitative research and GIS skills, practical skills such as project management, facilitation and community consultation, and communication skills needed to succeed in a wide variety of urban professions. Students are encouraged to discuss the selection and sequencing of courses with the Program Advisor or Associate Chair (City Studies).

Program Requirements:

This program requires the completion of 12.0 credits as follows:

1. Introduction to Social Science Thought (1.0 credit from among the following):

[ANTA01H3](#) Introduction to Anthropology: Becoming Human
[ANTA02H3](#) Introduction to Anthropology: Culture, Society and Language
[GGRA02H3](#) The Geography of Global Processes
[GGRA03H3](#) Cities and Environments
[MGEA01H3](#)/(ECMA01H3) Introduction to Microeconomics
or [MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#)/(ECMA05H3) Introduction to Macroeconomics
or [MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]
[POLA01H3](#) Critical Issues in Politics I
[POLA02H3](#) Critical Issues in Politics II
[SOCA01H3](#) Introduction to Sociology I
[SOCA02H3](#) Introduction to Sociology II

2. Core courses (2.0 credits as follows):

[CITB02H3](#) Foundations of City Studies
and 1.5 credits from among the following:
[CITB01H3](#) Canadian Cities and Planning
[CITB03H3](#) Social Planning and Community Development
[CITB04H3](#) City Politics
[CITB08H3](#) Economy of Cities

3. City Studies Fundamentals (3.5 credits from among the following):

[CITC01H3](#) Urban Communities and Neighbourhoods Case Study
[CITC02H3](#) Learning in Community Service
[CITC03H3](#) Real Estate and the City
[CITC04H3](#) Municipal and Planning Law in Ontario
[CITC07H3](#) Urban Social Policy
[CITC08H3](#) Cities and Community Development
[CITC12H3](#) City Structures and City Choices: Local Government,

Management, and Policymaking
[CITC14H3](#) Environmental Planning
[CITC15H3](#) Taxing and Spending: Public Finance in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC17H3](#) Civic Engagement in Urban Politics
[CITC18H3](#) Transportation Policy Analysis

4. Research Methods (2.0 credits):

[STAB23H3](#) Introduction to Statistics for the Social Sciences (or equivalent)
[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I or [GGRB03H3](#) Writing Geography: From Good to Great]
[GGRC32H3](#) Essential Spatial Analysis or [GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography]

5. City Studies Applications (1.5 credits from among the following)*:

[GGRB02H3](#) The Logic of Geographic Thought
[GGRB05H3](#) Urban Geography
[GGRB13H3](#) Social Geography
[POLB50Y3](#) Canadian Government and Politics
[SOCB44H3](#) Sociology of Cities and Urban Life
[GGRC02H3](#) Population Geography
[GGRC10H3](#) Urbanization and Development
[GGRC11H3](#) Current Topics in Urban Geography
[GGRC12H3](#) Transportation Geography
[GGRC13H3](#) Urban Political Geography
[GGRC27H3](#) Location and Spatial Development
[GGRC33H3](#) The Toronto Region
[GGRC40H3](#) Megacities and Global Urbanization
[GGRC48H3](#) Geographies of Urban Poverty
[POLC53H3](#) Canadian Environmental Policy
[PPGC66H3](#)/(POLC66H3) Public Policy Making
[PPGC67H3](#)/(POLC67H3) Public Policy in Canada

*Note: these courses may have prerequisites that are not included in this program

6. City Studies Workshop (1.0 credit):

[CITD05H3](#) City Studies Workshop I
[CITD06H3](#) City Studies Workshop II

7. Advanced Applications (1.0 credit):

[CITD01H3](#) City Issues and Strategies
[CITD10H3](#) Seminar in Selected Issues in City Studies
[CITD30H3](#) Supervised Research Project
[GGRD14H3](#) Social Justice and the City

Management, and Policymaking
[CITC14H3](#) Environmental Planning
[CITC15H3](#) Taxing and Spending: Public Finance in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC17H3](#) Civic Engagement in Urban Politics
[CITC18H3](#) Transportation Policy Analysis

4. Research Methods (2.0 credits):

[STAB23H3](#) Introduction to Statistics for the Social Sciences (or equivalent)
[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I or [GGRB03H3](#) Writing Geography: From Good to Great]
[GGRC32H3](#) Essential Spatial Analysis or [GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography]

5. City Studies Applications (1.5 credits from among the following)*:

[GGRB02H3](#) The Logic of Geographic Thought
[GGRB05H3](#) Urban Geography
[GGRB13H3](#) Social Geography
[POLB50Y3](#) Canadian Government and Politics
[SOCB44H3](#) Sociology of Cities and Urban Life
[GGRC02H3](#) Population Geography
[GGRC10H3](#) Urbanization and Development
[GGRC11H3](#) Current Topics in Urban Geography
[GGRC12H3](#) Transportation Geography
[GGRC13H3](#) Urban Political Geography
[GGRC27H3](#) Location and Spatial Development
[GGRC33H3](#) The Toronto Region
[GGRC40H3](#) Megacities and Global Urbanization
[GGRC48H3](#) Geographies of Urban Poverty
[POLC53H3](#) Canadian Environmental Policy
[PPGC66H3](#)/(POLC66H3) Public Policy Making
[PPGC67H3](#)/(POLC67H3) Public Policy in Canada

*Note: these courses may have prerequisites that are not included in this program

6. City Studies Workshop (1.0 credit):

[CITD05H3](#) City Studies Workshop I
[CITD06H3](#) City Studies Workshop II

7. Advanced Applications (1.0 credit):

[CITD01H3](#) City Issues and Strategies
[CITD10H3](#) Seminar in Selected Issues in City Studies
[CITD30H3](#) Supervised Research Project
[GGRD14H3](#) Social Justice and the City

Program notes/tables

Program: SCMIN2540A - Compare

Code	SCMIN2540A	SCMIN2540A
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)	MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Minor Program in International Development Studies has been closed, effective January 12, 2010. Students who enrolled prior to the 2010 Summer Session should refer to the 2009-10 UTSC Calendar. Every effort will be made to ensure that students currently enrolled in the program are able to complete it.</p>	<p>The Minor in International Development Studies (IDS) will provide students with an introduction to a critical understanding of international development issues, and the academic building blocks for greater awareness of the world around them, as well as an entry point into greater academic study of international development itself. 2.0 credits are in 'core' courses at the first and second year level, the other 2.0 credits will be electives from cognate fields, allowing students to take courses that might have synergies with their Major or Specialist programs.</p> <p>Program Requirements</p> <p>This program requires the completion of 4.0 credits, of which at least 1.0 credit must be at the C- or D-level.</p> <p>1. Introduction to International Development Studies (0.5 credit) IDSA01H3 Introduction to International Development Studies</p> <p>2. Core courses in International Development (1.5 credits) Choose from the following: IDSB01H3 Political Economy of International Development* IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective *Students interested in IDSB01H3 are cautioned that it contains prerequisites not included in this offering.</p> <p>3. Specialized Courses (2.0 credits) 2.0 credits from the courses listed in Requirement 5 of the Specialist BA in International Development Studies, of which at least 1.0 credit must be at the C- or D-level. POLB91H3 may be counted toward this requirement.</p>

Program notes/tables

Program: SCSPE2015 - Compare

Code	SCSPE2015	SCSPE2015
Owning Organizations	POL,POLSC	POL,POLSC
Sections	Political Science	Political Science
Title	SPECIALIST PROGRAM IN POLITICAL SCIENCE (ARTS)	SPECIALIST PROGRAM IN POLITICAL SCIENCE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>Students must complete at least 12.0 full credits in Political Science including:</p> <ol style="list-style-type: none"> 1. Introduction to Political Science (1.0 credit): POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): POLB72H3 Introduction to Political Theory 0.5 credit from among the courses listed in the Political Theory area of focus 3. Canadian Politics (1.0 credit): POLB50Y3 Canadian Government and Politics 4. At least four of the following (2.0 credits): POLB80H3 Introduction to International Relations I POLB81H3 Introduction to International Relations II POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe 5. Methods (1.0 credit): STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (5.0 credits): 5.0 credits in POL or PPG courses at the C- and/or D-level 7. Advanced Applications (1.0 credit) At least 1.0 credit in POL or PPG courses at the D-level 	<p>Program Requirements</p> <p>Students must complete at least 12.0 full credits in Political Science including:</p> <ol style="list-style-type: none"> 1. Introduction to Political Science (1.0 credit): POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): POLB72H3 Introduction to Political Theory 0.5 credit from among the courses listed in the Political Theory area of focus 3. Canadian Politics (1.0 credit): POLB50Y3 Canadian Government and Politics 4. At least four of the following (2.0 credits): POLB80H3 Introduction to International Relations I POLB81H3 Introduction to International Relations II POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe 5. Methods (1.0 credit): STAB23H3 Introduction to Statistics for the Social Sciences or equivalent POLC78H3 Political Analysis I 6. Applications (5.0 credits): 5.0 credits in POL or PPG courses at the C- and/or D-level 7. Advanced Applications (1.0 credit) At least 1.0 credit in POL or PPG courses at the D-level

Program notes/tables

Program: SCMAJ2015 - Compare

Code	SCMAJ2015	SCMAJ2015
Owning Organizations	POL,POLSC	POL,POLSC
Sections	Political Science	Political Science
Title	MAJOR PROGRAM IN POLITICAL SCIENCE (ARTS)	MAJOR PROGRAM IN POLITICAL SCIENCE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>Students must complete at least 8.0 credits in Political Science as follows:</p> <ol style="list-style-type: none"> 1. Introduction to Political Science (1.0 credit): POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): POLB72H3 Introduction to Political Theory 0.5 credit from among the courses listed in the Political Theory area of focus 3. Canadian Politics (1.0 credit): POLB50Y3 Canadian Government and Politics 4. At least two of the following (1.0 credit): POLB80H3 Introduction to International Relations I POLB81H3 Introduction to International Relations II POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe 5. Methods (1.0 credit): STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (2.5 credits): 2.5 credits in POL or PPG courses of which at least 2.0 must be at the C- and/or D-level 7. Advanced Applications (0.5 credit) At least 0.5 credit in POL or PPG courses at the D-level 	<p>Program Requirements</p> <p>Students must complete at least 8.0 credits in Political Science as follows:</p> <ol style="list-style-type: none"> 1. Introduction to Political Science (1.0 credit): POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): POLB72H3 Introduction to Political Theory 0.5 credit from among the courses listed in the Political Theory area of focus 3. Canadian Politics (1.0 credit): POLB50Y3 Canadian Government and Politics 4. At least two of the following (1.0 credit): POLB80H3 Introduction to International Relations I POLB81H3 Introduction to International Relations II POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe 5. Methods (1.0 credit): STAB23H3 Introduction to Statistics for the Social Sciences or equivalent POLC78H3 Political Analysis I 6. Applications (2.5 credits): 2.5 credits in POL or PPG courses of which at least 2.0 must be at the C- and/or D-level 7. Advanced Applications (0.5 credit) At least 0.5 credit in POL or PPG courses at the D-level

Program notes/tables

Program: SCMAJPUBP - Compare

Code	SCMAJPUBP	SCMAJPUBP
Owning Organizations	POLSC,PPG	POLSC,PPG
Sections	Public Policy	Public Policy
Title	MAJOR PROGRAM IN PUBLIC POLICY (ARTS)	MAJOR PROGRAM IN PUBLIC POLICY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Major Program in Public Policy equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and non-governmental sectors, or to continue to graduate training in public policy.</p> <p>The Program is cross-disciplinary; public policy analysis is the exercise of applying the theoretical frameworks and positivist and interpretive methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.</p> <p>Program Requirements Students must pay careful attention to the prerequisites for higher level courses.</p> <p>Course requirements: Students must complete 8.0 full credits as follows:</p> <p>1. 1.0 credit at the A- or B-level in Anthropology, City Studies, Geography, International Development Studies, Political Science, or Sociology. At least 0.5 credits in A-level Political Science are recommended.</p> <p>We also recommend interested students take introductory courses in departments like City Studies, Economics for Management Studies, Environmental Science, International Development Studies, and Sociology that may reflect their particular substantive interests.</p> <p>2. Economics for Public Policy (1.0 credit): MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) OR MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)</p> <p>3. Canadian Politics (1.0 credit) POLB50Y3 Canadian Government and Politics</p> <p>4. Fundamentals of Public Policy (1.0 credit) PPGC66H3 Public Policy Making PPGC67H3 Public Policy in Canada</p> <p>5. Research Methods (1.0 credit with at least 0.5 credit in quantitative methods) Quantitative Methods courses include: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems POLC11H3 Applied Statistics for Politics and Public Policy STAB22H3 Statistics I</p> <p>Qualitative Methods courses include: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography POLC78H3 Political Analysis I</p> <p>6. Applications of Public Policy (3.0 credits from the following list* of Public Policy courses, or other courses with the approval of the supervisor of studies. Of these, 1.0 credit must be from C- or D-level courses in Political Science.) CITB04H3 City Politics CITC04H3 Municipal Planning Law in Ontario CITC07H3 Urban Social Policy CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking</p>	<p>The Major Program in Public Policy equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and non-governmental sectors, or to continue to graduate training in public policy.</p> <p>The Program is cross-disciplinary; public policy analysis is the exercise of applying the theoretical frameworks and positivist and interpretive methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.</p> <p>Program Requirements Students must pay careful attention to the prerequisites for higher level courses.</p> <p>Course requirements: Students must complete 8.0 full credits as follows:</p> <p>1. 1.0 credit at the A- or B-level in Anthropology, City Studies, Geography, International Development Studies, Political Science, or Sociology. At least 0.5 credits in A-level Political Science are recommended.</p> <p>We also recommend interested students take introductory courses in departments like City Studies, Economics for Management Studies, Environmental Science, International Development Studies, and Sociology that may reflect their particular substantive interests.</p> <p>2. Economics for Public Policy (1.0 credit): MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) OR MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)</p> <p>3. Canadian Politics (1.0 credit) POLB50Y3 Canadian Government and Politics</p> <p>4. Fundamentals of Public Policy (1.0 credit) PPGC66H3 Public Policy Making PPGC67H3 Public Policy in Canada</p> <p>5. Research Methods (1.0 credit with at least 0.5 credit in quantitative methods) Quantitative Methods courses include: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems POLC11H3 Applied Statistics for Politics and Public Policy STAB23H3 Introduction to Statistics for the Social Sciences</p> <p>Qualitative Methods courses include: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography POLC78H3 Political Analysis I</p> <p>6. Applications of Public Policy (3.0 credits from the following list* of Public Policy courses, or other courses with the approval of the supervisor of studies. Of these, 1.0 credit must be from C- or D-level courses in Political Science.) CITB04H3 City Politics CITC04H3 Municipal Planning Law in Ontario CITC07H3 Urban Social Policy CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking</p>

[CITC15H3](#) Taxing and Spending: Public Finances in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC18H3](#) Urban Transportation Policy Analysis
[MGEB31H3](#)/(ECMB35H3) Public Decision Making
[MGEB32H3](#)/(ECMB36H3) Economic Aspects of Public Policy
[MGEC31H3](#)/(ECMC31H3) Economics of the Public Sector: Taxation
[MGEC32H3](#)/(ECMC32H3) Economics of the Public Sector:

Expenditures

[MGEC34H3](#)/(ECMC34H3) Economics of Health Care
[MGEC38H3](#)/(ECMC38H3) The Economics of Canadian Public Policy
[MGEC91H3](#)/(ECMC91H3) Economics and Government
[GGRC13H3](#) Urban Political Geography
[HLTB40H3](#) Health Policy and Health Systems
[HLTC43H3](#) Politics of Canadian Health Policy
[IDSB01H3](#) Political Economy of International Development
[IDSB04H3](#) Introduction to International/Global Health
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business –

Government Relations

[POLC36H3](#) Law and Public Policy
[POLC53H3](#) Canadian Environmental Policy
[POLC54H3](#) Intergovernmental Relations in Canada
[POLC57H3](#) Intergovernmental Relations and Public Policy
[POLC65H3](#) Political Strategy
[POLC83H3](#) Applications of American Foreign Policy
[POLC93H3](#) Public Policies in the United States
[POLD50H3](#) Political Interests, Political Identity, and Public Policy
[POLD52H3](#) Immigration and Canadian Political Development
[POLD67H3](#) The Limits of Rationality
[POLD89H3](#) Global Environmental Politics
[POLD90H3](#) Public Policy and Human Development in the Global South
[PPGD64H3](#) Comparative Public Policy
[SOCC47H3](#) Social Inequality
[SOCC37H3](#) Environment and Society

* Many of these courses have prerequisites, please plan accordingly. In addition, we recommend taking methods courses from within your disciplinary major program.

[CITC15H3](#) Taxing and Spending: Public Finances in Canadian Cities
[CITC16H3](#) Planning and Governing the Metropolis
[CITC18H3](#) Urban Transportation Policy Analysis
[MGEB31H3](#)/(ECMB35H3) Public Decision Making
[MGEB32H3](#)/(ECMB36H3) Economic Aspects of Public Policy
[MGEC31H3](#)/(ECMC31H3) Economics of the Public Sector: Taxation
[MGEC32H3](#)/(ECMC32H3) Economics of the Public Sector:

Expenditures

[MGEC34H3](#)/(ECMC34H3) Economics of Health Care
[MGEC38H3](#)/(ECMC38H3) The Economics of Canadian Public Policy
[MGEC91H3](#)/(ECMC91H3) Economics and Government
[GGRC13H3](#) Urban Political Geography
[HLTB40H3](#) Health Policy and Health Systems
[HLTC43H3](#) Politics of Canadian Health Policy
[IDSB01H3](#) Political Economy of International Development
[IDSB04H3](#) Introduction to International/Global Health
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business –

Government Relations

[MGSC12H3](#) Narrative and Management
[POLC36H3](#) Law and Public Policy
[POLC53H3](#) Canadian Environmental Policy
[POLC54H3](#) Intergovernmental Relations in Canada
[POLC57H3](#) Intergovernmental Relations and Public Policy
[POLC65H3](#) Political Strategy
[POLC83H3](#) Applications of American Foreign Policy
[POLC93H3](#) Public Policies in the United States
[POLD50H3](#) Political Interests, Political Identity, and Public Policy
[POLD52H3](#) Immigration and Canadian Political Development
[POLD53H3](#) Political Disagreement in Canada
[POLD67H3](#) The Limits of Rationality
[POLD89H3](#) Global Environmental Politics
[POLD90H3](#) Public Policy and Human Development in the Global South
[PPGD64H3](#) Comparative Public Policy
[SOCC47H3](#) Social Inequality
[SOCC37H3](#) Environment and Society

* Many of these courses have prerequisites, please plan accordingly. In addition, we recommend taking methods courses from within your disciplinary major program.

Program notes/tables

Program: SCMIN2030 - Compare

Code	SCMIN2030	SCMIN2030
Owning Organizations	POL,POLSC	POL,POLSC
Sections	Political Science	Political Science
Title	MINOR PROGRAM IN PUBLIC LAW (ARTS)	MINOR PROGRAM IN PUBLIC LAW (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Minor in Public Law examines how the legal system, of which the constitutional order and judiciary are integral parts, governs the relationship both among constituent units of the state and between citizens and the state. It also examines the obligations that states have to one another via international law. Courses in the program address the normative foundations of principles of justice and human rights; the role of constitutions and courts in safeguarding the rule of law, protecting civil liberties, and curbing state power; the constraints to state sovereignty posed by international law and international courts; and the implications of the legal order for democratic and legitimate policy-making.</p> <p>Program Requirements Students must complete 4.0 credits, of which at least 1.0 credit must be at the C- and/or D-level.</p> <p>1. Core Courses (2.5 credits): POLB30H3 Law, Justice and Rights POLB50Y3 Canadian Government and Politics POLC32H3 The Canadian Judicial System POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms</p> <p>2. Public Law Electives (1.0 credit): POLC36H3 Law and Public Policy POLC38H3 International Law POLC39H3 Comparative Legal Systems POLD45H3 Constitutionalism</p> <p>3. Additional Elective (0.5 credit) An additional 0.5 credit from requirement 2 above or an appropriate course from another discipline, including at the UTSC, UTM and St. George campuses, as approved by the Public Law Program Advisor.</p>	<p>The Minor in Public Law examines how the legal system, of which the constitutional order and judiciary are integral parts, governs the relationship both among constituent units of the state and between citizens and the state. It also examines the obligations that states have to one another via international law. Courses in the program address the normative foundations of principles of justice and human rights; the role of constitutions and courts in safeguarding the rule of law, protecting civil liberties, and curbing state power; the constraints to state sovereignty posed by international law and international courts; and the implications of the legal order for democratic and legitimate policy-making.</p> <p>Program Requirements Students must complete 4.0 credits, of which at least 1.0 credit must be at the C- and/or D-level.</p> <p>1. Core Courses (2.5 credits): POLB30H3 Law, Justice and Rights POLB50Y3 Canadian Government and Politics POLC32H3 The Canadian Judicial System POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms</p> <p>2. Public Law Electives (1.0 credit): POLC36H3 Law and Public Policy POLC38H3 International Law POLC39H3 Comparative Legal Systems POLD42H3 Advanced Topics in Public Law POLD45H3 Constitutionalism</p> <p>3. Additional Elective (0.5 credit) An additional 0.5 credit from requirement 2 above or an appropriate course from another discipline, including at the UTSC, UTM and St. George campuses, as approved by the Public Law Program Advisor.</p>

Program notes/tables

Program: SCMAJ1160M - Compare

Code	SCMAJ1160M	SCMAJ1160M
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	MAJOR PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)	MAJOR PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>The program requires 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. PSYB07H3 Data Analysis in Psychology (0.5 credit) 3. Laboratory Methods (1.0 credit) PSYB01H3 Psychological Research Laboratory <i>and</i> PSYC37H3 Psychological Assessment 4. PSYB30H3 Personality <i>and</i> PSYB32H3 Abnormal Psychology (1.0 credit) 5. Students are required to take 1.0 credit from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 0.5 credit from the other group (1.5 credits): <ol style="list-style-type: none"> a. Psycho-Social Grouping PSYB45H3 Behaviour Modification PSYC18H3 The Psychology of Emotion PSYC35H3 Advanced Personality Psychology PSYC36H3 Psychotherapy PSYC39H3 Psychology and the Law b. Psycho-Biological Grouping PSYB64H3 Physiological Psychology PSYB65H3 Human Brain & Behaviour PSYC31H3 Clinical Neuropsychology PSYC33H3 Neuropsychological Rehabilitation PSYC62H3 Drugs and the Brain 6. Credits at the D-level (0.5 credit) 7. Additional credits in Psychology (1.5 credits) 	<p>Program Requirements</p> <p>The program requires 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. STAB22H3 Statistics I <i>or</i> STAB23H3 Introduction to Statistics for the Social Sciences <i>or</i> PSYB07H3 Data Analysis in Psychology (0.5 credit) 3. Laboratory Methods (1.0 credit) PSYB01H3 Psychological Research Laboratory <i>or</i> PSYB04H3 Foundations in Psychological Research <i>and</i> PSYC37H3 Psychological Assessment 4. PSYB30H3 Personality <i>and</i> PSYB32H3 Abnormal Psychology (1.0 credit) 5. Students are required to take 1.0 credit from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 0.5 credit from the other group (1.5 credits): <ol style="list-style-type: none"> a. Psycho-Social Grouping PSYB45H3 Behaviour Modification PSYC18H3 The Psychology of Emotion PSYC35H3 Advanced Personality Psychology PSYC36H3 Psychotherapy PSYC39H3 Psychology and the Law b. Psycho-Biological Grouping PSYB64H3 Physiological Psychology PSYB65H3 Human Brain & Behaviour PSYC31H3 Clinical Neuropsychology PSYC33H3 Neuropsychological Rehabilitation PSYC62H3 Drugs and the Brain 6. Credits at the D-level (0.5 credit) 7. Additional credits in Psychology (1.5 credits)

Program notes/tables

Program: SCMAJ1160 - Compare

Code	SCMAJ1160	SCMAJ1160
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	MAJOR PROGRAM IN PSYCHOLOGY (SCIENCE)	MAJOR PROGRAM IN PSYCHOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>The Program requires completion of 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. PSYB01H3 Psychological Research Laboratory (0.5 credit) 3. STAB22H3 Statistics I (recommended) <i>or</i> PSYB07H3 Data Analysis in Psychology (0.5 credit) 4. Credits at the B-level and C-level (2.5 credits) Students are required to take 2.0 credits at the B-level or C-level from group (1) or (2) and 0.5 credit from the other group: <ol style="list-style-type: none"> 1. Social and Developmental (courses listed in the 10- and 20-series); 2. Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 5. Credits at the D-level (0.5 full credit) Students must choose one half credit from the D-level offerings in Psychology. Certain D-level NRO courses may be used to fulfill this requirement with the approval of the Supervisor of Studies. 6. Additional credits in Psychology (2.0 credits) Students must choose 2.0 further credits from any of the remaining courses in Psychology. At least 1.0 credit from these must be at the C- or D-level. 	<p>Program Requirements</p> <p>The Program requires completion of 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. PSYB01H3 Psychological Research Laboratory <i>or</i> PSYB04H3 Foundations in Psychological Research (0.5 credit) 3. STAB22H3 Statistics I (recommended) <i>or</i> STAB23H3 Introduction to Statistics for the Social Sciences <i>or</i> PSYB07H3 Data Analysis in Psychology (0.5 credit) 4. Credits at the B-level and C-level (2.5 credits) Students are required to take 2.0 credits at the B-level or C-level from group (1) or (2) and 0.5 credit from the other group: <ol style="list-style-type: none"> 1. Social and Developmental (courses listed in the 10- and 20-series); 2. Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 5. Credits at the D-level (0.5 full credit) Students must choose one half credit from the D-level offerings in Psychology. Certain D-level NRO courses may be used to fulfill this requirement with the approval of the Supervisor of Studies. 6. Additional credits in Psychology (2.0 credits) Students must choose 2.0 further credits from any of the remaining courses in Psychology. At least 1.0 credit from these must be at the C-level.

Program notes/tables

Program: SCMIN1160 - Compare

Code	SCMIN1160	SCMIN1160
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	MINOR PROGRAM IN PSYCHOLOGY (SCIENCE)	MINOR PROGRAM IN PSYCHOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>The Program requires completion of 4.0 credits, of which 1.0 credit must be at the C-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. PSYB01H3 Psychological Research Laboratory (0.5 credit) 3. STAB22H3 Statistics I (recommended) <i>or</i> PSYB07H3 Data Analysis in Psychology (0.5 credit) 4. Students are required to select 0.5 credit at the B-level from each of the two content groups listed below (1.0 credit): <ol style="list-style-type: none"> a. Social, Developmental and Personality (courses listed in the 10-, 20- or 30-series); b. Learning, Perception, Cognition and Physiology (courses listed in the 40-, 50- or 60-series); 5. 1.0 additional credit in Psychology at the C-level. <p>NOTE: students in the Minor in Psychology can register in no more than 1.0 full credit equivalent in psychology at the C-level.</p>	<p>Program Requirements</p> <p>The Program requires completion of 4.0 credits, of which 1.0 credit must be at the C-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. PSYB01H3 Psychological Research Laboratory <i>or</i> PSYB04H3 Foundations in Psychological Research (0.5 credit) 3. STAB22H3 Statistics I (recommended) <i>or</i> STAB23H3 Introduction to Statistics for the Social Sciences <i>or</i> PSYB07H3 Data Analysis in Psychology (0.5 credit) 4. Students are required to select 0.5 credit at the B-level from each of the two content groups listed below (1.0 credit): <ol style="list-style-type: none"> a. Social, Developmental and Personality (courses listed in the 10-, 20- or 30-series); b. Learning, Perception, Cognition and Physiology (courses listed in the 40-, 50- or 60-series); 5. 1.0 additional credit in Psychology at the C-level. <p>NOTE: students in the Minor in Psychology can register in no more than 1.0 full credit equivalent in psychology at the C-level.</p>

Program notes/tables

Program: SCSPE1150 - Compare

Code	SCSPE1150	SCSPE1150
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	SPECIALIST PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)	SPECIALIST PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Andrade <i>Email:</i> biodiversity@utsc.utoronto.ca</p> <p>This program presents a foundation for understanding how ecology and evolution shape organismal features (from morphology and physiology to behaviour) and the structure and function of communities and ecosystems. Ultimately these processes determine the broad patterns of organization of life on earth and biodiversity. The challenges to biodiversity are daunting. Habitat destruction, biological invasions and climate change are causing loss of species and disruption of ecosystems worldwide. Graduates are trained to understand and actively seek solutions to these problems. This program will show how ecological and evolutionary perspectives can be used to understand and predict the outcome of dynamic interactions among organisms, populations, species, and communities. Students will be well trained to take positions in government agencies, consulting firms or NGO's, able to continue with graduate studies in science for academic careers, or able to pursue careers in business or law related to environmental issues, stewardship and sustainable development.</p> <p>NOTE: This program has been renamed. It was formerly known as the Specialist in Biodiversity, Ecology & Evolution (B.Sc.).</p> <p>Program Requirements</p> <p>This program consists of 14.5 required credits.</p> <p>A. Required Courses</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics</p> <p>Choose from:</p> <p>PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>0.5 Credit in Computer Science</p> <p>Choose from:</p> <p>CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students) CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students) PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs</p> <p>BIOB52H3 Ecology and Evolutionary Biology Laboratory</p>	<p><i>Supervisor:</i> M. Andrade <i>Effective July 1, 2016:</i> I. Stehlik</p> <p><i>Email:</i> biodiversity@utsc.utoronto.ca</p> <p>This program presents a foundation for understanding how ecology and evolution shape organismal features (from morphology and physiology to behaviour) and the structure and function of communities and ecosystems. Ultimately these processes determine the broad patterns of organization of life on earth and biodiversity. The challenges to biodiversity are daunting. Habitat destruction, biological invasions and climate change are causing loss of species and disruption of ecosystems worldwide. Graduates are trained to understand and actively seek solutions to these problems. This program will show how ecological and evolutionary perspectives can be used to understand and predict the outcome of dynamic interactions among organisms, populations, species, and communities. Students will be well trained to take positions in government agencies, consulting firms or NGO's, able to continue with graduate studies in science for academic careers, or able to pursue careers in business or law related to environmental issues, stewardship and sustainable development.</p> <p>NOTE: This program has been renamed. It was formerly known as the Specialist in Biodiversity, Ecology & Evolution (B.Sc.).</p> <p>Program Requirements</p> <p>This program consists of 14.5 required credits.</p> <p>A. Required Courses</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>MATA29H3 Calculus I for the Life Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics</p> <p>Choose from:</p> <p>PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>0.5 Credit in Computer Science</p> <p>Choose from:</p> <p>CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students) CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students) PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p>

0.5 Credit in Statistics

Choose from:

- [STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

*Third Year***2.0 Credits of C-level Ecology and Evolution Foundation Courses**

- [BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC50H3](#) Macroevolution
[BIOC59H3](#) Advanced Population Ecology
[BIOC61H3](#) Community Ecology and Environmental Biology

Third/Fourth Year

4.5 credits of C- & D-level courses from Bins 1 and 2 below. This must include at least one credit from each bin and at least one credit total at the D-level.

Bin 1: C- & D-level Ecology and Evolution Courses

Choose from:

- [BIOC51H3](#) Tropical Biodiversity Field Course
[BIOC52H3](#) Ecology Field Course
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC60H3](#) Winter Ecology
[BIOC63H3](#) Conservation Biology
[BIOC65H3](#) Environmental Toxicology
 (BIOC67H3) Inter-University Biology Field Course
[BIOD25H3](#) Genomics
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes and Consequences of Biodiversity
[BIOD67H3](#) Inter-University Biology Field Course
[EESC04H3](#) Biodiversity and Biogeography

Bin 2: C- & D-level Organismal Biology Courses

Choose from:

- [BIOC37H3](#) Plants: Life on the Edge
 (BIOC38H3) Plants and Society
[BIOC40H3](#) Plant Physiology
[BIOC54H3](#) Animal Behaviour
[BIOC62H3](#) Role of Zoos in Conservation
[BIOD26H3](#) Fungal Biology & Pathogenesis
[BIOD33H3](#) Comparative Animal Physiology
[BIOD37H3](#) Biology of Plant Stress
[BIOD43H3](#) Animal Movement and Exercise
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology and Herpetology
[BIOD53H3](#) Special Topics in Behavioural Ecology
[EESC30H3](#) Microbial Biogeochemistry

B. Senior Research Courses (optional)

Students interested in graduate research are encouraged to take one or more of the independent research courses offered in Biological Sciences as part of their degree.

- [BIOD95H3](#) Supervised Study in Biology
[BIOD98Y3](#) Directed Research in Biology
[BIOD99Y3](#) Directed Research in Biology

0.5 Credit of Biology Core Labs

- [BIOB52H3](#) Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics

Choose from:

- [STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

*Third Year***2.0 Credits of C-level Ecology and Evolution Foundation Courses**

- [BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC50H3](#) Macroevolution
[BIOC59H3](#) Advanced Population Ecology
[BIOC61H3](#) Community Ecology and Environmental Biology

Third/Fourth Year

4.5 credits of C- & D-level courses from Bins 1 and 2 below. This must include at least one credit from each bin and at least one credit total at the D-level.

Bin 1: C- & D-level Ecology and Evolution Courses

Choose from:

- [BIOC51H3](#) Tropical Biodiversity Field Course
[BIOC52H3](#) Ecology Field Course
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC60H3](#) Winter Ecology
[BIOC63H3](#) Conservation Biology
[BIOC65H3](#) Environmental Toxicology
 (BIOC67H3) Inter-University Biology Field Course
[BIOD25H3](#) Genomics
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes and Consequences of Biodiversity
[BIOD67H3](#) Inter-University Biology Field Course
[EESC04H3](#) Biodiversity and Biogeography

Bin 2: C- & D-level Organismal Biology Courses

Choose from:

- [BIOC37H3](#) Plants: Life on the Edge
 (BIOC38H3) Plants and Society
[BIOC40H3](#) Plant Physiology
[BIOC54H3](#) Animal Behaviour
[BIOC62H3](#) Role of Zoos in Conservation
[BIOD26H3](#) Fungal Biology & Pathogenesis
[BIOD33H3](#) Comparative Animal Physiology
[BIOD37H3](#) Biology of Plant Stress
[BIOD43H3](#) Animal Movement and Exercise
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology
[BIOD53H3](#) Special Topics in Behavioural Ecology
[EESC30H3](#) Environmental Microbiology

B. Senior Research Courses (optional)

Students interested in graduate research are encouraged to take one or more of the independent research courses offered in Biological Sciences as part of their degree.

- [BIOD95H3](#) Supervised Study in Biology
[BIOD98Y3](#) Directed Research in Biology
[BIOD99Y3](#) Directed Research in Biology

Program notes/tables

Program: SCMAJ0220 - Compare

Code	SCMAJ0220	SCMAJ0220
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MAJOR PROGRAM IN MOLECULAR BIOLOGY, IMMUNOLOGY AND DISEASE	MAJOR PROGRAM IN MOLECULAR BIOLOGY, IMMUNOLOGY AND DISEASE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> S. Brunt <i>Email:</i> molecular-biology-immunology@utsc.utoronto.ca</p> <p>This program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to immunology, infection and disease. Upper year courses are available in microbiology, immunology, biochemistry and pathobiology of disease. This program is suitable for students with an interest in molecular biology and disease.</p> <p>Program Requirements This program consists of 8.0 credits. To complete their degree, students shall combine this Major program with another Major program, or two Minor programs (see section entitled Combining Majors in Biology in the preamble to the description of Biological Sciences programs). When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth (see the Degrees section of this <i>Calendar</i>).</p> <p>Required Courses and Suggested Sequence:</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Calculus or Statistics Choose from: MATA30H3 Calculus I for Biological and Physical Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit in a Biology Core Lab Choose From: BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy</p> <p><i>Third/Fourth Years</i></p> <p>1.0 Credit of Required C-level Courses BIOC17H3 Microbiology BIOC39H3 Immunology</p> <p>1.0 Credit of Additional C-level Courses Choose from: BIOC10H3 Cell Biology: Proteins from Life to Death BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics and Metabolism BIOC14H3 Genes, Environment and Behaviour BIOC15H3 Genetics BIOC19H3 Animal Developmental Biology BIOC31H3 Plant Development and Biotechnology</p>	<p><i>Supervisor:</i> S. Brunt <i>Email:</i> molecular-biology-immunology@utsc.utoronto.ca</p> <p>This program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to immunology, infection and disease. Upper year courses are available in microbiology, immunology, biochemistry and pathobiology of disease. This program is suitable for students with an interest in molecular biology and disease.</p> <p>Program Requirements This program consists of 8.0 credits. To complete their degree, students shall combine this Major program with another Major program, or two Minor programs (see section entitled Combining Majors in Biology in the preamble to the description of Biological Sciences programs). When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth (see the Degrees section of this <i>Calendar</i>).</p> <p>Required Courses and Suggested Sequence:</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Mathematics or Statistics Choose from: MATA29H3 Calculus I for the Life Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit in a Biology Core Lab Choose From: BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy</p> <p><i>Third/Fourth Years</i></p> <p>1.0 Credit of Required C-level Courses BIOC17H3 Microbiology BIOC39H3 Immunology</p> <p>1.0 Credit of Additional C-level Courses Choose from: BIOC10H3 Cell Biology: Proteins from Life to Death BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics and Metabolism BIOC14H3 Genes, Environment and Behaviour BIOC15H3 Genetics BIOC19H3 Animal Developmental Biology BIOC31H3 Plant Development and Biotechnology</p>

0.5 credit of Additional D-level Biology Courses

Choose from:

- [BIOD17H3](#) Seminars in Cellular Microbiology
- [BIOD19H3](#) Epigenetics in Health and Disease
- [BIOD23H3](#) Special Topics in Cell Biology
- [BIOD25H3](#) Genomics
- [BIOD26H3](#) Fungal Biology and Pathogenesis
- [BIOD27H3](#) Molecular Endocrinology
- [BIOD29H3](#) Pathobiology of Human Disease

0.5 credit of Additional D-level Biology Courses

Choose from:

- [BIOD17H3](#) Seminars in Cellular Microbiology
- [BIOD19H3](#) Epigenetics in Health and Disease
- [BIOD23H3](#) Special Topics in Cell Biology
- [BIOD25H3](#) Genomics
- [BIOD26H3](#) Fungal Biology and Pathogenesis
- [BIOD27H3](#) Molecular Endocrinology
- [BIOD29H3](#) Pathobiology of Human Disease

Program notes/tables

Program: SCMAJ1234 - Compare

Code	SCMAJ1234	SCMAJ1234
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	CERTIFICATE IN BUSINESS	CERTIFICATE IN BUSINESS
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Department of Management also offers a Certificate Program for non-degree students. (See the Degrees section of this <i>Calendar</i> for details.) Non-degree students interested in this Certificate Program should visit the Department <i>Website</i>: www.utoronto.ca/mgmt/business_cert.html</p>	<p>The Department of Management also offers a Certificate Program for non-degree students. (See the Degrees section of this <i>Calendar</i> for details.) For further information, non-degree students who are interested in this Certificate Program should visit the Department's <i>Website</i>: www.utoronto.ca/mgmt/business_cert.html</p>

Program notes/tables

Program: SCSPE2540 - Compare

Code	SCSPE2540	SCSPE2540
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)	SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Co-operative Program in International Development Studies (B.A.) at University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.A. with a Specialist certification in International Development Studies.</p>	<p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Co-operative Program in International Development Studies (B.A.) at University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.A. with a Specialist certification in International Development Studies.</p>
	<p>Program Admission</p> <p>Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website at: www.utsoc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.</p>	<p>Program Admission</p> <p>Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website at: www.utsoc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.</p>
	<p>Work Placement</p> <p>This program requires twenty courses (four years) of study and one work term of eight to twelve months in duration. The work term will normally begin between April and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.</p> <p>Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 full credits including 12.0 IDS credits. These 12 must include IDSC01H3, IDSC04H3 plus 9.5 other credits from Requirements 1 through 4. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.</p>	<p>Work Placement</p> <p>This program requires the completion of 15.0 FCEs and one work term of eight to twelve months in duration. The work term will normally begin between April and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.</p> <p>Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 credits, including IDSC01H3, IDSC04H3 and a further 6.0 credits from Requirements 1 through 4 of the Specialist in International Development Studies (BA) program. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6 of the Specialist in International Development Studies (BA) program, as well the required 1.0 credit in a second language, when completing the remainder of the 14.5 credits that are required prior to placement. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.</p>
	<p>IDS Co-op Tutorial and Pre-Departure Orientation</p> <p>In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program (credit)/NCR (no credit) is recorded on the transcript.</p>	

with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

First Year:

During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to beginning the Third Year course.

Third Year:

Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year - usually third year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the [IDSD01Y3](#) thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

Program Requirements

This program requires 15.0 full credits, of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.

Students must complete requirements 1-5 of the requirements for the Specialist (Non-co-op B.A.) Program in International Development Studies, except for [IDSD02H3](#), plus the following:

- 1.0 full credit in a second language
- [IDSC01H3](#) Research Design for Development Fieldwork (must be taken prior to co-op placement)
- [IDSD01Y3](#) Post-placement Seminar and Thesis

IDS Co-op Tutorial and Pre-Departure Orientation

In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

First Year:

During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to beginning the Third Year course.

Third Year:

Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year - usually third year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the [IDSD01Y3](#) thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

Program Requirements

This program requires 15.0 full credits, of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.

Students must complete requirements 1-5 of the requirements for the Specialist (Non-co-op B.A.) Program in International Development Studies, except for [IDSD02H3](#), plus the following:

- 1.0 full credit in a second language
- [IDSC01H3](#) Research Design for Development Fieldwork (must be taken prior to co-op placement)
- [IDSD01Y3](#) Post-placement Seminar and Thesis

Program notes/tables

Program: SCSPE0215 - Compare

Code	SCSPE0215	SCSPE0215
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	SPECIALIST PROGRAM IN HUMAN BIOLOGY (SCIENCE)	SPECIALIST PROGRAM IN HUMAN BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Terebiznik <i>Email:</i> human-biology@utsc.utoronto.ca</p> <p>The Human Biology specialist program provides a solid foundation of introductory science courses and core biology courses while emphasizing, in the upper years, issues related to human health, the nature of humans and their culture as well as the interaction of the human species with the environment. The first year of the program emphasizes introductory courses in biology, chemistry, calculus, physics and psychology. The second year of the program emphasizes core courses in cell biology, molecular biology, physiology, ecology, evolution and anatomy that provide the basis for continued specialization in the third and fourth years. The upper years of the program emphasize specialized courses in anatomy, histology, anthropology, biochemistry, endocrinology, immunology, microbiology, physiology, psychology, pathology and pathobiology. This program is suited for those students who wish to go onto health-related fields such as medicine, dentistry, nursing, pharmacy, physiotherapy and health policy/management or graduate studies in these, and other, areas such as physiology, medicine and endocrinology.</p> <p>Program Requirements This Program consists of 15.5 credits.</p> <p>Required Courses and Suggested Course Sequence <i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit of Mathematics MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>1.0 Credit of Introductory Physics Courses PHYA11H3 Introduction to Physics IB PHYA22H3 Introduction to Physics IIB</p> <p>1.0 Credit of Introductory Psychology Courses PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>1.0 Credit of Biology Core Labs BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory</p> <p>1.0 Credit of Organic Chemistry Courses CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II</p> <p><i>Third/Fourth Years</i></p> <p>2.0 Credits of C-level Biology Core Courses BIOC15H3 Genetics</p>	<p><i>Supervisor:</i> A. Ashok <i>Effective July 1, 2016:</i> M. Terebiznik</p> <p><i>Supervisor:</i> A. Ashok <i>Effective July 1, 2016:</i> M. Terebiznik</p> <p><i>Email:</i> human-biology@utsc.utoronto.ca</p> <p>The Human Biology specialist program provides a solid foundation of introductory science courses and core biology courses while emphasizing, in the upper years, issues related to human health, the nature of humans and their culture as well as the interaction of the human species with the environment. The first year of the program emphasizes introductory courses in biology, chemistry, calculus, physics and psychology. The second year of the program emphasizes core courses in cell biology, molecular biology, physiology, ecology, evolution and anatomy that provide the basis for continued specialization in the third and fourth years. The upper years of the program emphasize specialized courses in anatomy, biochemistry, endocrinology, immunology, microbiology, physiology, psychology, pathology and pathobiology. This program is suited for those students who wish to go onto health-related fields such as medicine, dentistry, nursing, pharmacy, physiotherapy and health policy/management or graduate studies in these, and other, areas such as physiology, medicine and endocrinology.</p> <p>Program Requirements This Program consists of 15.5 credits.</p> <p>Required Courses and Suggested Course Sequence <i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit of Mathematics MATA29H3 Calculus I for the Life Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>1.0 Credit of Introductory Physics Courses PHYA11H3 Introduction to Physics IB PHYA22H3 Introduction to Physics IIB</p> <p>1.0 Credit of Introductory Psychology Courses PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>1.0 Credit of Biology Core Labs BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory</p> <p>1.0 Credit of Organic Chemistry Courses CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II</p> <p><i>Third/Fourth Years</i></p> <p>2.0 Credits of C-level Biology Core Courses</p>

[BIOC17H3](#) Microbiology
[BIOC32H3](#) Human Physiology I
[BIOC39H3](#) Immunology

1.5 Credits of Additional C-level Biology Courses

Choose From:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death
[BIOC12H3](#) Biochemistry I: Proteins and Enzymes
[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism
[BIOC14H3](#) Genes, Environment and Behaviour
[BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC19H3](#) Animal Developmental Biology
[BIOC21H3](#) Vertebrate Histology: Cells and Tissues
[BIOC33H3](#) Human Physiology II: Lecture and Laboratory or [BIOC34H3](#)
 Human Physiology II: Lecture]
[BIOC40H3](#) Plant Physiology
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC65H3](#) Environmental Toxicology

1.0 Credit of D-level Biology Courses

Choose From:

[BIOD17H3](#) Seminars in Cellular Microbiology
[BIOD19H3](#) Epigenetics in Health and Disease
[BIOD26H3](#) Fungal Biology and Pathogenesis
[BIOD27H3](#) Molecular Endocrinology
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD33H3](#) Comparative Animal Physiology
[BIOD37H3](#) Biology of Plant Stress
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System

0.5 Credit in Statistics

Choose From:

[STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

0.5 Credit in Psychology or Health Studies

Choose From any B-, C- or D-level Psychology course, or from the Health Studies courses listed below:

[HLTB15H3](#) Introduction to Health Research Methodology
[HLTB16H3](#) Introduction to Public Health
[HLTB17H3](#) Conceptual Models of Health
[HLTB20H3](#) Contemporary Human Evolution and Variation
[HLTB21H3](#) Infectious Diseases
[HLTB22H3](#) Biological Determinants of Health
[HLTB40H3](#) Health Policy and Health Systems

[BIOC15H3](#) Genetics
[BIOC17H3](#) Microbiology
[BIOC32H3](#) Human Physiology I
[BIOC39H3](#) Immunology

1.5 Credits of Additional C-level Biology Courses

Choose From:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death
[BIOC12H3](#) Biochemistry I: Proteins and Enzymes
[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism
[BIOC14H3](#) Genes, Environment and Behaviour
[BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC19H3](#) Animal Developmental Biology
[BIOC21H3](#) Vertebrate Histology: Cells and Tissues
[BIOC33H3](#) Human Physiology II: Lecture and Laboratory or [BIOC34H3](#)
 Human Physiology II: Lecture]
[BIOC40H3](#) Plant Physiology
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC65H3](#) Environmental Toxicology

1.0 Credit of D-level Biology Courses

Choose From:

[BIOD17H3](#) Seminars in Cellular Microbiology
[BIOD19H3](#) Epigenetics in Health and Disease
[BIOD26H3](#) Fungal Biology and Pathogenesis
[BIOD27H3](#) Molecular Endocrinology
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD33H3](#) Comparative Animal Physiology
[BIOD35H3](#) Sports Science
[BIOD37H3](#) Biology of Plant Stress
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System

0.5 Credit in Statistics

Choose From:

[STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

0.5 Credit in Psychology or Health Studies

Choose From any B-, C- or D-level Psychology course, or from the Health Studies courses listed below:

[HLTB15H3](#) Introduction to Health Research Methodology
[HLTB16H3](#) Introduction to Public Health
[HLTB17H3](#) Conceptual Models of Health
[HLTB20H3](#) Contemporary Human Evolution and Variation
[HLTB21H3](#) Infectious Diseases
[HLTB22H3](#) Biological Determinants of Health
[HLTB40H3](#) Health Policy and Health Systems

Program notes/tables

Program: SCSPE1203 - Compare

Code	SCSPE1203	SCSPE1203
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	SPECIALIST PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)	SPECIALIST PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Supervisor: C. Hasenkampf *Email:* molecular-biology-biotechnology@utsc.utoronto.ca

The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combine this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through the course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills.

NOTE: This program has been renamed. It was formerly known as the Specialist in Cell and Molecular Biology (B.Sc.).

Program Requirements

This program consists of 14.0 required credits.

*First Year***1.0 Credit of Introductory Biology Courses**

[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses

[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics

Choose from:
[MATA30H3](#) Calculus I for Biological and Physical Sciences &
[MATA35H3](#) Calculus II for Biological Sciences or
[MATA30H3](#) Calculus I for Biological and Physical Sciences &
[MATA36H3](#) Calculus II for Physical Sciences

1.0 Credit in Physics

Choose 0.5 credit from:
[PHYA10H3](#) Introduction to Physics IA
[PHYA11H3](#) Introduction to Physics IB

Choose 0.5 credit from:
[PHYA21H3](#) Introduction to Physics IIA
[PHYA22H3](#) Introduction to Physics IIB

0.5 Credit in Statistics

Choose from:
[STAB22H3](#) Statistics I (this course could also be taken in second year)
[PSYB07H3](#) Data Analysis in Psychology (this course could also be taken in second year)

*Second Year***3.0 Credits of Biology Core Courses**

[BIOB10H3](#) Cell Biology
[BIOB11H3](#) Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3](#) Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3](#) Plants and Society or (BIOB31H3) Plant Physiology]
[BIOB50H3](#) Ecology
[BIOB51H3](#) Evolutionary Biology

Supervisor: C. Hasenkampf *Email:* molecular-biology-biotechnology@utsc.utoronto.ca

The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combines this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through the course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills.

NOTE: This program has been renamed. It was formerly known as the Specialist in Cell and Molecular Biology (B.Sc.).

Program Requirements

This program consists of 14.0 required credits.

*First Year***1.0 Credit of Introductory Biology Courses**

[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses

[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics

[MATA29H3](#) Calculus I for the Life Sciences
[MATA35H3](#) Calculus II for Biological Sciences

1.0 Credit in Physics

Choose 0.5 credit from:
[PHYA10H3](#) Introduction to Physics IA
[PHYA11H3](#) Introduction to Physics IB

Choose 0.5 credit from:
[PHYA21H3](#) Introduction to Physics IIA
[PHYA22H3](#) Introduction to Physics IIB

0.5 Credit in Statistics

Choose from:
[STAB22H3](#) Statistics I (this course could also be taken in second year)
[PSYB07H3](#) Data Analysis in Psychology (this course could also be taken in second year)

*Second Year***3.0 Credits of Biology Core Courses**

[BIOB10H3](#) Cell Biology
[BIOB11H3](#) Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3](#) Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3](#) Plants and Society or (BIOB31H3) Plant Physiology]
[BIOB50H3](#) Ecology
[BIOB51H3](#) Evolutionary Biology

0.5 Credit of Biology Core Labs

[BIOB12H3](#) Cell and Molecular Biology Laboratory

0.5 Credit of Biology Core Labs[BIOB12H3](#) Cell and Molecular Biology Laboratory**1.0 Credit of Organic Chemistry Courses**[CHMB41H3](#) Organic Chemistry I[CHMB42H3](#) Organic Chemistry II*Third Year***3.0 Credits of Biology C-level Courses**[BIOC12H3](#) Biochemistry I: Proteins & Enzymes[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism[BIOC15H3](#) Genetics[BIOC17H3](#) Microbiology[BIOC23H3](#) Practical Approaches to Biochemistry[BIOC39H3](#) Immunology (can be completed in third or fourth year)**0.5 Credit in Computer Science**

Choose from:

[CSCA08H3](#) Introduction to Computer Science I (most appropriate course for computer science students)[CSCA20H3](#) Introduction to Programming (most appropriate course for non-computer science students)[PSCB57H3](#) Introduction to Scientific Computing (computer science could also be taken in an earlier year)*Third/Fourth Year***0.5 Credit of Cognate Biology Courses**

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death[BIOC14H3](#) Genes, Environment and Behaviour[BIOC19H3](#) Animal Developmental Biology[BIOC21H3](#) Vertebrate Histology: Cells and Tissues[\(BGYC22H3\)](#) Vertebrate Histology: Organs[BIOC31H3](#) Plant Development and Biotechnology[BIOC40H3](#) Plant Physiology[BIOD37H3](#) Biology of Plant Stress*Fourth Year***0.5 Credit in Advanced Molecular Techniques**[BIOD21H3](#) Advanced Molecular Biology Laboratory**0.5 credit of D-level Research-oriented "Cell & Molecular" Course Work**

Choose from:

[BIOD17H3](#) Seminars in Cellular Microbiology[BIOD19H3](#) Epigenetics in Health and Disease[BIOD22H3](#) Molecular Biology of the Stress Response[BIOD23H3](#) Special Topics in Cell Biology[BIOD25H3](#) Genomics[BIOD26H3](#) Fungal Biology and Pathogenesis[BIOD27H3](#) Molecular Endocrinology[BIOD29H3](#) Pathobiology of Human Disease[BIOD95H3](#) Supervised Study in Biology[BIOD98Y3](#) Directed Research in Biology**Note:** Any of these courses not used to satisfy this requirement may be used to fulfill the '0.5 Credit of Cognate Biology Courses'.**1.0 Credit of Organic Chemistry Courses**[CHMB41H3](#) Organic Chemistry I[CHMB42H3](#) Organic Chemistry II*Third Year***3.0 Credits of Biology C-level Courses**[BIOC12H3](#) Biochemistry I: Proteins & Enzymes[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism[BIOC15H3](#) Genetics[BIOC17H3](#) Microbiology[BIOC23H3](#) Practical Approaches to Biochemistry[BIOC39H3](#) Immunology (can be completed in third or fourth year)**0.5 Credit in Computer Science**

Choose from:

[CSCA08H3](#) Introduction to Computer Science I (most appropriate course for computer science students)[CSCA20H3](#) Introduction to Programming (most appropriate course for non-computer science students)[PSCB57H3](#) Introduction to Scientific Computing (computer science could also be taken in an earlier year)*Third/Fourth Year***0.5 Credit of Cognate Biology Courses**

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death[BIOC14H3](#) Genes, Environment and Behaviour[BIOC19H3](#) Animal Developmental Biology[BIOC21H3](#) Vertebrate Histology: Cells and Tissues[BIOC31H3](#) Plant Development and Biotechnology[BIOC40H3](#) Plant Physiology[BIOD37H3](#) Biology of Plant Stress*Fourth Year***0.5 Credit in Advanced Molecular Techniques**[BIOD21H3](#) Advanced Molecular Biology Laboratory**0.5 credit of D-level Research-oriented "Cell & Molecular" Course Work**

Choose from:

[BIOD17H3](#) Seminars in Cellular Microbiology[BIOD19H3](#) Epigenetics in Health and Disease[BIOD22H3](#) Molecular Biology of the Stress Response[BIOD23H3](#) Special Topics in Cell Biology[BIOD25H3](#) Genomics[BIOD26H3](#) Fungal Biology and Pathogenesis[BIOD27H3](#) Molecular Endocrinology[BIOD29H3](#) Pathobiology of Human Disease[BIOD30H3](#) Plant Research and Biotechnology: Addressing Global Problems[BIOD95H3](#) Supervised Study in Biology[BIOD98Y3](#) Directed Research in Biology**Note:** Any of these courses not used to satisfy this requirement may be used to fulfill the '0.5 Credit of Cognate Biology Courses'.

Program notes/tables

Program: SCSPE1203C - Compare

Code	SCSPE1203C	SCSPE1203C
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> C. Hasenkampf <i>Email:</i> molecular-biology-biotechnology@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combine this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills. The co-op option of the Molecular Biology and Biotechnology program complements and punctuates academic course work with full-time work terms in research laboratories, government, health care, or in public or private industry. These placements help students define and refine their career and/or professional school goals. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>NOTE: This program has been renamed. It was formerly known as the Specialist Co-operative in Cell and Molecular Biology (B.Sc.).</p> <p>Program Admission</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website: www.utsc.utoronto.ca/registrar. The minimum qualifications for entry are 5.0 credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [(MATA20H3) & (MATA21H3)] or [MATA30H3 & (MATA35H3 or MATA36H3)], [PHYA10H3 or PHYA11H3], plus a cumulative GPA of at least 2.75.</p> <p>Program Requirements</p> <p>This program consists of 14.0 required credits plus two work-terms.</p> <p>A. Course Requirements</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry I: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>Choose from: MATA30H3 Calculus I for Biological and Physical Sciences & MATA35H3 Calculus II for Biological Sciences) or MATA30H3 Calculus I for Biological and Physical Sciences & MATA36H3 Calculus II for Physical Sciences)</p> <p>1.0 Credit in Physics</p> <p>Choose 0.5 credit from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p>	<p><i>Supervisor:</i> C. Hasenkampf <i>Email:</i> molecular-biology-biotechnology@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combine this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills. The co-op option of the Molecular Biology and Biotechnology program complements and punctuates academic course work with full-time work terms in research laboratories, government, health care, or in public or private industry. These placements help students define and refine their career and/or professional school goals. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>NOTE: This program has been renamed. It was formerly known as the Specialist Co-operative in Cell and Molecular Biology (B.Sc.).</p> <p>Program Admission</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website: www.utsc.utoronto.ca/registrar. The minimum qualifications for entry are 5.0 credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [(MATA20H3) & (MATA21H3)] or [MATA29H3 & MATA35H3], [PHYA10H3 or PHYA11H3], plus a cumulative GPA of at least 2.75.</p> <p>Program Requirements</p> <p>This program consists of 14.0 required credits plus two work-terms.</p> <p>A. Course Requirements</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry I: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>Choose from: MATA29H3 Calculus I for the Life Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>1.0 Credit in Physics</p> <p>Choose 0.5 credit from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>Choose 0.5 credit from: PHYA21H3 Introduction to Physics IIA</p>

Choose 0.5 credit from:

[PHYA21H3](#) Introduction to Physics IIA

[PHYA22H3](#) Introduction to Physics IIB

0.5 Credit in Statistics

Choose from:

[STAB22H3](#) Statistics I (this course could also be taken in second year)

[PSYB07H3](#) Data Analysis in Psychology (this course could also be taken in second year)

Second Year

3.0 Credits of Biology Core Courses

[BIOB10H3](#) Cell Biology

[BIOB11H3](#) Molecular Aspects of Cellular and Genetic Processes

[BIOB34H3](#) Animal Physiology or (BIOB30H3) Mammalian Physiology I]

[BIOB38H3](#) Plants and Society or (BIOB31H3) Plant Physiology]

[BIOB50H3](#) Ecology

[BIOB51H3](#) Evolutionary Biology

0.5 Credit of Biology Core Labs

[BIOB12H3](#) Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses

[CHMB41H3](#) Organic Chemistry I

[CHMB42H3](#) Organic Chemistry II

Computer Science might be taken in this year and will enhance Co-op placement options.

Third Year

3.0 Credits of Biology C-level Courses

[BIOC12H3](#) Biochemistry I: Proteins and Enzymes

[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism

[BIOC15H3](#) Genetics

[BIOC17H3](#) Microbiology

[BIOC23H3](#) Practical Approaches to Biochemistry

[BIOC39H3](#) Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science

Choose from:

[CSCA08H3](#) Introduction to Computer Science I (most appropriate course for computer science students)

[CSCA20H3](#) Introduction to Programming (most appropriate course for non-computer science students)

[PSCB57H3](#) Introduction to Scientific Computing

Third/Fourth Year

0.5 Credit of Cognate Biology Courses

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death

[BIOC14H3](#) Genes, Environment and Behaviour

[BIOC19H3](#) Animal Developmental Biology

[BIOC21H3](#) Vertebrate Histology: Cells and Tissues

[BIOC22H3](#) Vertebrate Histology: Organs

[BIOC31H3](#) Plant Development and Biotechnology

[BIOC40H3](#) Plant Physiology

[BIOD37H3](#) Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques

[BIOD21H3](#) Advanced Molecular Biology Laboratory

0.5 Credit of D-level Research-Oriented "Cell & Molecular" Course Work

Choose from:

[BIOD17H3](#) Seminars in Cellular Microbiology

[BIOD19H3](#) Epigenetics in Health and Disease

[BIOD22H3](#) Molecular Biology of the Stress Response

[BIOD23H3](#) Special Topics in Cell Biology

[BIOD25H3](#) Genomics

[BIOD26H3](#) Fungal Biology and Pathogenesis

[BIOD27H3](#) Molecular Endocrinology

[BIOD29H3](#) Pathobiology of Human Disease

[BIOD95H3](#) Supervised Study in Biology

[PHYA22H3](#) Introduction to Physics IIB

0.5 Credit in Statistics

Choose from:

[STAB22H3](#) Statistics I (this course could also be taken in second year)

[PSYB07H3](#) Data Analysis in Psychology (this course could also be taken in second year)

Second Year

3.0 Credits of Biology Core Courses

[BIOB10H3](#) Cell Biology

[BIOB11H3](#) Molecular Aspects of Cellular and Genetic Processes

[BIOB34H3](#) Animal Physiology or (BIOB30H3) Mammalian Physiology I]

[BIOB38H3](#) Plants and Society or (BIOB31H3) Plant Physiology]

[BIOB50H3](#) Ecology

[BIOB51H3](#) Evolutionary Biology

0.5 Credit of Biology Core Labs

[BIOB12H3](#) Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses

[CHMB41H3](#) Organic Chemistry I

[CHMB42H3](#) Organic Chemistry II

Computer Science might be taken in this year and will enhance Co-op placement options.

Third Year

3.0 Credits of Biology C-level Courses

[BIOC12H3](#) Biochemistry I: Proteins and Enzymes

[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism

[BIOC15H3](#) Genetics

[BIOC17H3](#) Microbiology

[BIOC23H3](#) Practical Approaches to Biochemistry

[BIOC39H3](#) Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science

Choose from:

[CSCA08H3](#) Introduction to Computer Science I (most appropriate course for computer science students)

[CSCA20H3](#) Introduction to Programming (most appropriate course for non-computer science students)

[PSCB57H3](#) Introduction to Scientific Computing

Third/Fourth Year

0.5 Credit of Cognate Biology Courses

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death

[BIOC14H3](#) Genes, Environment and Behaviour

[BIOC19H3](#) Animal Developmental Biology

[BIOC21H3](#) Vertebrate Histology: Cells and Tissues

[BIOC31H3](#) Plant Development and Biotechnology

[BIOC40H3](#) Plant Physiology

[BIOD37H3](#) Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques

[BIOD21H3](#) Advanced Molecular Biology Laboratory

0.5 Credit of D-level Research-Oriented "Cell & Molecular" Course Work

Choose from:

[BIOD17H3](#) Seminars in Cellular Microbiology

[BIOD19H3](#) Epigenetics in Health and Disease

[BIOD22H3](#) Molecular Biology of the Stress Response

[BIOD23H3](#) Special Topics in Cell Biology

[BIOD25H3](#) Genomics

[BIOD26H3](#) Fungal Biology and Pathogenesis

[BIOD27H3](#) Molecular Endocrinology

[BIOD29H3](#) Pathobiology of Human Disease

[BIOD30H3](#) Plant Research and Biotechnology: Addressing Global Problems

[BIOD95H3](#) Supervised Study in Biology

[BIOD98Y3](#) Directed Research in Biology

[BIOD98Y3](#) Directed Research in Biology

Note: Any of these courses not used to satisfy this requirement can be used to fulfill the '0.5 Credit of Cognate Biology Courses.'

B. Work Term Requirements

The program requires eight four-month terms of study and two four-month work terms. Practical work experience in the fields of cell biology, genetics, molecular biology and biotechnology are alternated with study terms to enhance academic studies and develop professional and personal skills. Students must submit both an oral and written report on each work term for evaluation, and will also complete a standardized form assessing the quality of their co-op work term. Students are expected to do at least one of their work placements in the fall or winter term.

To be eligible for their first work term, students must be in good standing in the program and have completed at least 10.0 credits, including [BIOA01H3](#), [BIOA02H3](#), [CHMA10H3](#), [CHMA11H3](#), [([MATA20H3](#)) & ([MATA21H3](#))] or [[MATA30H3](#) & [[MATA35H3](#) or [MATA36H3](#)]], [[PHYA10H3](#) or [PHYA11H3](#)], [BIOB10H3](#), [BIOB11H3](#), [BIOB12H3](#), [CHMB41H3](#), [CHMB42H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

To be eligible for their second work term placement, students must have completed at least 12.5 credits which must include [BIOC12H3](#) & [BIOC15H3](#) or [[BIOC13H3](#) & [BIOC17H3](#)] and have received a satisfactory evaluation for their performance and for their reports on their first work term. Completion of Statistics and Computer Science course work, before the second placement, is highly recommended.

Note: Any of these courses not used to satisfy this requirement can be used to fulfill the '0.5 Credit of Cognate Biology Courses.'

B. Work Term Requirements

The program requires eight four-month terms of study and two four-month work terms. Practical work experience in the fields of cell biology, genetics, molecular biology and biotechnology are alternated with study terms to enhance academic studies and develop professional and personal skills. Students must submit both an oral and written report on each work term for evaluation, and will also complete a standardized form assessing the quality of their co-op work term. Students are expected to do at least one of their work placements in the fall or winter term.

To be eligible for their first work term, students must be in good standing in the program and have completed at least 10.0 credits, including [BIOA01H3](#), [BIOA02H3](#), [CHMA10H3](#), [CHMA11H3](#), [([MATA20H3](#)) & ([MATA21H3](#))] or [[MATA29H3](#) & [MATA35H3](#)], [[PHYA10H3](#) or [PHYA11H3](#)], [BIOB10H3](#), [BIOB11H3](#), [BIOB12H3](#), [CHMB41H3](#), [CHMB42H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

To be eligible for their second work term placement, students must have completed at least 12.5 credits which must include [BIOC12H3](#) & [BIOC15H3](#) or [[BIOC13H3](#) & [BIOC17H3](#)] and have received a satisfactory evaluation for their performance and for their reports on their first work term. Completion of Statistics and Computer Science course work, before the second placement, is highly recommended.

Program notes/tables

Program: SCMAJ1688 - Compare

Code	SCMAJ1688	SCMAJ1688
Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	Computer Science	Computer Science
Title	MAJOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)	MAJOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>Email:</i> pancer@utsc.utoronto.ca</p> <p>Program Objectives This program provides basic knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. This program is intended to be combined with other programs, typically a major program in another discipline.</p> <p>Program Admission Students are admitted to the second year of the program. All A-level courses required for the program must have been completed (see requirement 1 below). Admission is based on CGPA and grades in computer science and mathematics courses that the student has taken. The minimum CGPA for admission is calculated annually.</p> <p>Program Requirements This program requires a total of 16 distinct courses (8 credits) satisfying all of the requirements listed below. Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.</p> <p>1. A-level courses (3 credits) CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCA67H3 Discrete Mathematics MATA23H3 Linear Algebra I MATA31H3 Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences</p> <p>2. B-level courses (3 credits) CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Programming CSCB36H3 Introduction to the Theory of Computation CSCB58H3 Computer Organization CSCB63H3 Design and Analysis of Data Structures</p> <p>One of: (*) MATB24H3 Linear Algebra II STAB52H3 Introduction to Probability (*) In making this choice, students should consider the prerequisites of courses they plan to take to satisfy requirements 3-4.</p> <p>3. C-level courses in numerical computation and theory of computing (1 credit) CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics One of: CSCC63H3 Computability and Computational Complexity CSCC73H3 Algorithm Design and Analysis</p> <p>4. CSC electives (1 credit) Two of: Any C- or D-level CSC courses.</p> <p>Writing Recommendation: Students are urged to take a course from the following list of courses by the end of their second year: ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB17H3, ENGB19H3, ENGB50H3.</p>	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>Email:</i> pancer@utsc.utoronto.ca</p> <p>Program Objectives This program provides basic knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. This program is intended to be combined with other programs, typically a major program in another discipline.</p> <p>Program Admission Enrolment in the Major in Computer Science is limited. Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required for the Major. Students with a CGPA of 2.5 or greater across the core A-level courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, and MATA37H3) are guaranteed admission. Students who are not admitted as above, may apply after completing at least 7.5 credits, including CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3, CSCB07H3, CSCB09H3, CSCB36H3, CSCB63H3, and [one of MATB24H3 or STAB52H3]. The CGPA will be calculated across these 11 courses, and a CGPA of 2.5 or greater guarantees admission to the Major. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program.</p> <p>Program Requirements This program requires a total of 16 distinct courses (8 credits) satisfying all of the requirements listed below. Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.</p> <p>1. A-level courses (3 credits) CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCA67H3 Discrete Mathematics MATA23H3 Linear Algebra I MATA31H3 Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences</p> <p>2. B-level courses (3 credits) CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Programming CSCB36H3 Introduction to the Theory of Computation CSCB58H3 Computer Organization CSCB63H3 Design and Analysis of Data Structures</p> <p>One of: (*) MATB24H3 Linear Algebra II STAB52H3 Introduction to Probability (*) In making this choice, students should consider the prerequisites of courses they plan to take to satisfy requirements 3-4.</p> <p>3. C-level courses in numerical computation and theory of computing (1 credit) CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics One of: CSCC63H3 Computability and Computational Complexity CSCC73H3 Algorithm Design and Analysis</p>

(ENGB51H3), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3),
(HISA01H3), (HLTA01H3), (HUMA01H3), (HUMA11H3), (HUMA17H3),
(LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

[CSCC63H3](#) Computability and Computational Complexity
[CSCC73H3](#) Algorithm Design and Analysis

4. CSC electives (1 credit)

Two of:

Any C- or D-level CSC courses.

Writing Recommendation:

Students are urged to take a course from the following list of courses by the end of their second year: [ANTA01H3](#), [ANTA02H3](#), (CLAA02H3), (CTLA19H3), [CTLA01H3](#), [ENGA10H3](#), [ENGA11H3](#), [ENGB06H3](#), [ENGB07H3](#), [ENGB08H3](#), [ENGB17H3](#), [ENGB19H3](#), [ENGB50H3](#), [ENGB51H3](#), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3), (HISA01H3), (HLTA01H3), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

Program notes/tables

Program: SCMIN0180 - Compare

Code	SCMIN0180	SCMIN0180
Owning Organizations	LGG,FLSC	LGG,FLSC
Sections	Languages	Languages
Title	MINOR PROGRAM IN ENGLISH TO CHINESE TRANSLATION (ARTS)	MINOR PROGRAM IN ENGLISH TO CHINESE TRANSLATION (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Admission Requirements	Students are required to undergo a fluency interview held at UTSC, and must present their original documents (TOFEL or IELTS or HSK scores or four-year transcripts at high school and/or university in designated English-speaking countries). Interview dates and a questionnaire will be posted to the Centre for French and Linguistics website.	Students are required to undergo a fluency interview held at UTSC, and must present their original documents (TOFEL or IELTS or HSK scores or four-year transcripts at high school and/or university in designated English-speaking countries). Interview dates and a questionnaire will be posted to the Centre for French and Linguistics website.
Description	This program is designed for students, fluent in both English and Chinese, who are interested in English to Chinese translation. It will equip students with the fundamental theoretical knowledge and practical skills required in this profession.	This program is designed for students, fluent in both English and Chinese, who are interested in English to Chinese translation. It will equip students with the fundamental theoretical knowledge and practical skills required in this profession.
Program Requirements	<p>Students are required to complete a total of 4.0 credits.</p> <p>1. 3.0 credits: LINA01H3 Introduction to Linguistics LINB06H3 Syntax LINB60H3 Structure of Chinese ECTB61H3 English to Chinese Translation: Theory and Practice ECTD68H3 Translation for Business and Media ECTD69H3 Translation for Government and Public Administration</p> <p>2. 1.0 credit from the following: LGGC64H3 Reading Chinese: China from the Inside Out LGGC65H3 Reading Chinese: Global Perspectives LGGC66H3 Classical Chinese LGGC67H3 Literary Chinese</p>	<p>Students are required to complete a total of 4.0 credits.</p> <p>1. 2.0 credits: LINA01H3 Introduction to Linguistics LINB06H3 Syntax LINB60H3 Structure of Chinese ECTB61H3 English to Chinese Translation: Theory and Practice</p> <p>2. 1.0 credit from the following: ECTC61H3 Translation Studies in Literature ECTD68H3 Translation for Business and Media ECTD69H3 Translation for Government and Public Administration</p> <p>3. 1.0 credit from the following: LGGC64H3 Reading Chinese: China from the Inside Out LGGC65H3 Reading Chinese: Global Perspectives LGGC66H3 Classical Chinese LGGC67H3 Literary Chinese</p>
Program notes/tables		

Program: SCSPE2431J - Compare

Code	SCSPE2431J	SCSPE2431J
Owning Organizations	MG, MGTEC	MG, MGTEC
Sections	Management	Management
Title	SPECIALIST CO-OPERATIVE PROGRAM IN MANAGEMENT AND INTERNATIONAL BUSINESS (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST CO-OPERATIVE PROGRAM IN MANAGEMENT AND INTERNATIONAL BUSINESS (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director:</i> Hugh Laurence <i>Email:</i> mibss@utsc.utoronto.ca</p> <p>The Specialist in Management and International Business (MIB) is an exclusive co-op program that is designed to give students a broad exposure to all functional areas of Management while providing a unique understanding of the business world in a global context. Academically, the program requires a language development component and a number of specially designed courses emphasizing international business. Through the high-level curricular programming as well as the practical experiences abroad, students will experience an emphasis on cross-cultural communications and leadership, while simultaneously maintaining a quantitative and analytical focus. Students will also have the opportunity to maintain a more general academic approach, or use their electives to focus in on a specific discipline within the Management Program.</p> <p>Program Admission: Enrolment in the program is limited, and students may only apply directly from secondary school. Under normal circumstances, transfer students and international students will not be considered for admission into the MIB program. The MIB is only offered as a Co-op program, and admissions will be based on the applicant's academic performance as well as a supplementary application and interview process. Interviews will be held in February, March and April for students who pass the initial screening. Successful students will demonstrate strength in academics, extra-curricular and volunteer activities, as well as an interest and focus on developing global competencies. For further information please see the Co-operative Programs section in this Calendar at www.utoronto.ca/~registrar and the MIB section of the Management website: http://www.utoronto.ca/~mgmt/ManagementInternationalBusinessProgram.html</p> <p>MIB Prep Course and Study Term: Students will complete a non-credit international co-op prep course COPD08Y3 in their first year, prior to the first approved work term. Students are also required to complete one study term outside of Canada, typically in their second or third year with an approved partner University, and will be required to complete some of the program requirements during this time. Although scholarships may be available, students are expected to budget for the additional costs of studying abroad.</p> <p>Work Term: This program requires four years of study along with three approved academically related work terms. At least one of the work terms must be outside of Canada. Students must complete 7.0 credits prior to the commencement of their first work term, which will likely be in Canada. The location of the international placements will vary according to student interest, availability of positions, practicability and safety of an area, as well as established international relationships. For further information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section in this <i>Calendar</i>.</p> <p>Program Requirements: The Program requires the completion of 16.5 to 17.0 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. 10.0 to 10.5 credits in Management as follows: MGIA01H3/(MGTB07H3) Principles of International Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]</p>	<p><i>Academic Director:</i> Hugh Laurence <i>Email:</i> mibss@utsc.utoronto.ca</p> <p>The Specialist in Management and International Business (MIB) is an exclusive co-op program that is designed to give students a broad exposure to all functional areas of Management while providing a unique understanding of the business world in a global context. Academically, the program requires a language development component and a number of specially designed courses emphasizing international business. Through the high-level curricular programming as well as the practical experiences abroad, students will experience an emphasis on cross-cultural communications and leadership, while simultaneously maintaining a quantitative and analytical focus. Students will also have the opportunity to maintain a more general academic approach, or use their electives to focus in on a specific discipline within the Management Program.</p> <p>Program Admission: Enrolment in the MIB program is limited. Most students will be accepted into the program directly from secondary school. Transfer students, and current UTSC students, may also apply for admission, but generally only those students who are in the early stages of their academic careers will be considered. The MIB is only offered as a Co-op program; admission is based on the applicant's academic performance as well as a supplementary application, and an interview process. Interviews are held in February, March and April for students who pass the initial screening. Successful students will demonstrate strength in academics, extra-curricular and volunteer activities, as well as an interest in, and focus on, developing global competencies. For further information please see the Co-operative Programs section in this Calendar at www.utoronto.ca/~registrar and the MIB section of the Management website: http://www.utoronto.ca/~mgmt/ManagementInternationalBusinessProgram.html</p> <p>MIB Prep Course and Study Term: Students will complete a non-credit international co-op prep course COPD08Y3 in their first year, prior to the first approved work term. Students are also required to complete one study term outside of Canada, typically in their second or third year with an approved partner University, and will be required to complete some of the program requirements during this time. Although scholarships may be available, students are expected to budget for the additional costs of studying abroad.</p> <p>Work Term: This program requires four years of study along with three approved academically related work terms. At least one of the work terms must be outside of Canada. Students must complete 7.0 credits prior to the commencement of their first work term, which will likely be in Canada. The location of the international placements will vary according to student interest, availability of positions, practicability and safety of an area, as well as established international relationships. For further information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section in this <i>Calendar</i>.</p> <p>Program Requirements: The Program requires the completion of 14.5 to 15.0 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. 8.5 to 9.0 credits in Management as follows: MGIA01H3/(MGTB07H3) Principles of International Marketing MGTA05H3 Foundations of Business Management or</p>

[\[MGTA36H3\]](#) Management Communications for Co-op or ([MGTC36H3](#))
[\[MGAB01H3\]](#)/([MGTB05H3](#)) Introductory Financial Accounting I
[\[MGIB01H3\]](#)/([MGTD19H3](#)) Global Marketing
[\[MGAB02H3\]](#)/([MGTB06H3](#)) Introductory Financial Accounting II
[\[MGIB02H3\]](#)/([MGTB25H3](#)) International Organizational Behaviour
[\[MGAB03H3\]](#)/([MGTB03H3](#)) Introductory Management Accounting
[\[MGFB10H3\]](#)/([MGTB09H3](#)) Principles of Finance
[\[MGIB12H3\]](#)/([MGTB22H3](#)) International Human Resources
[\[MGIC01H3\]](#)/([MGTD48H3](#)) International Corporate Strategy
[\[MGIC02H3\]](#)/([MGTC91H3](#)) International Leadership Skills
[\[MGOC10H3\]](#)/([MGTC74H3](#)) Analysis for Decision-Making
[\[MGFC10H3\]](#)/([MGTC09H3](#)) Intermediate Finance
[\[MGIC14H3\]](#)/([MGTD01H3](#)) International Business Ethics
[\[MGOC20H3\]](#)/([MGTC75H3](#)) Operations Management: A Mathematical Approach
[\[MGSC90H3\]](#)/([MGTC31H3](#)) The Legal Environment of Business I
[\[MGFC50H3\]](#)/([MGTC76H3](#)) International Financial Management
[\[MGID40H3\]](#)/([MGTD21H3](#)) Introduction to International Business Law
[\[MGID79H3\]](#)/([MGTD79H3](#)) International Capstone Case Analysis

2. 1.0 credit in Calculus from:

[\[MATA32H3\]](#) and [\[MATA33H3\]](#) strongly recommended, or
[\[MATA30H3\]](#)/A31H3 and [\[MATA35H3\]](#)/A36H3/A37H3]

3. 3.0 credits in Economics for Management Studies as follows:

[\[MGEA02H3\]](#)/([ECMA04H3](#)) Introduction to Microeconomics: A Mathematical Approach
[\[MGEA06H3\]](#)/([ECMA06H3](#)) Introduction to Macroeconomics: A Mathematical Approach
[\[MGEB02H3\]](#)/([ECMB02H3](#)) Price Theory: A Mathematical Approach
[\[MGEB06H3\]](#)/([ECMB06H3](#)) Macroeconomic Theory and Policy: A Mathematical Approach
[\[MGEB11H3\]](#)/([ECMB11H3](#)) Quantitative Methods in Economics I
[\[MGEB12H3\]](#)/([ECMB12H3](#)) Quantitative Methods in Economics II

4. 0.5 additional credit in Economics for Management Studies from:

[\[MGEC61H3\]](#)/([ECMC61H3](#)) International Economics: Finance or
[\[MGEC62H3\]](#)/([ECMC62H3](#)) International Economics: Trade Theory.

5. 2.0 credits (four H-courses) of Languages (LGG) or French (FRE) courses:

At least three courses must be in the same language (either LGG or FRE); the fourth course may follow that same language or may be a different language. Please note that your language skill will be assessed by the FRENCH and LANGUAGES areas before being formally placed in a given section.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Complementary Elective Courses (optional)

The following are some courses from other departments that can be used to complement the Specialist Program in Management and International Business. Students may want to consider these courses as potential electives. Please note that some of these courses require prerequisites which are not included in this program:

- [\[GASB30H3\]](#) Asian Religions and Culture
- [\[ANTA02H3\]](#) Introduction to Anthropology: Society, Culture and Language
- [\[ANTB20H3\]](#) Culture, Politics and Globalization
- [\[GGRA02H3\]](#) The Geography of Global Processes
- [\[IDSB01H3\]](#) Political Economy of International Development
- [\[IDSC12H3\]](#) Economics of Small Enterprise and Microcredit
- [\[POLB80H3\]](#) Introduction to International Relations I
- [\[POLB81H3\]](#) Introduction to International Relations II

[\[MGTA01H3\]](#)/([MGTA03H3](#)) and [\[MGTA02H3\]](#)/([MGTA04H3](#))
[\[MGTA36H3\]](#) Management Communications for Co-op or ([MGTC36H3](#))
[\[MGAB01H3\]](#)/([MGTB05H3](#)) Introductory Financial Accounting I
[\[MGIB01H3\]](#)/([MGTD19H3](#)) Global Marketing
[\[MGAB02H3\]](#)/([MGTB06H3](#)) Introductory Financial Accounting II
[\[MGIB02H3\]](#)/([MGTB25H3](#)) International Organizational Behaviour
[\[MGAB03H3\]](#)/([MGTB03H3](#)) Introductory Management Accounting
[\[MGFB10H3\]](#)/([MGTB09H3](#)) Principles of Finance
[\[MGIB12H3\]](#)/([MGTB22H3](#)) International Human Resources
[\[MGIC01H3\]](#)/([MGTD48H3](#)) International Corporate Strategy
[\[MGIC02H3\]](#)/([MGTC91H3](#)) International Leadership Skills
[\[MGOC10H3\]](#)/([MGTC74H3](#)) Analysis for Decision-Making
[\[MGFC10H3\]](#)/([MGTC09H3](#)) Intermediate Finance
[\[MGOC20H3\]](#)/([MGTC75H3](#)) Operations Management: A Mathematical Approach
[\[MGID40H3\]](#)/([MGTD21H3](#)) Introduction to International Business Law
[\[MGID79H3\]](#)/([MGTD79H3](#)) International Capstone Case Analysis

2. 1.0 credit in Calculus from:

[\[MATA32H3\]](#) and [\[MATA33H3\]](#) strongly recommended, or
[\[MATA30H3\]](#)/A31H3 and [\[MATA35H3\]](#)/A36H3/A37H3]

3. 3.0 credits in Economics for Management Studies as follows:

[\[MGEA02H3\]](#)/([ECMA04H3](#)) Introduction to Microeconomics: A Mathematical Approach
[\[MGEA06H3\]](#)/([ECMA06H3](#)) Introduction to Macroeconomics: A Mathematical Approach
[\[MGEB02H3\]](#)/([ECMB02H3](#)) Price Theory: A Mathematical Approach
[\[MGEB06H3\]](#)/([ECMB06H3](#)) Macroeconomic Theory and Policy: A Mathematical Approach
[\[MGEB11H3\]](#)/([ECMB11H3](#)) Quantitative Methods in Economics I
[\[MGEB12H3\]](#)/([ECMB12H3](#)) Quantitative Methods in Economics II

4. 2.0 credits (four H-courses) of Languages (LGG) or French (FRE) courses:

At least three courses must be in the same language (either LGG or FRE); the fourth course may follow that same language or may be a different language. Please note that your language skill will be assessed by the FRENCH and LANGUAGES areas before being formally placed in a given section.

Routes to Specialization:

The following routes to specialization are optional; students interested in concentrating in a specific area of study may choose from one of the following:

Accounting

Students interested in obtaining their accreditation in Accounting will require an additional semester to fulfill all of the requirements of an Accounting Specialist. Students should select courses for the CPA by referencing the Specialist in Management and Accounting program in the online Calendar.

Economics

Students interested in Economics should take [\[MGEC61H3\]](#) and [\[MGEC62H3\]](#) and [an additional 1.0 credit in MGE courses at the C- or D-level, with the exception of [\[MGEC91H3\]](#), [\[MGEC92H3\]](#), and [\[MGEC93H3\]](#).

Finance

Students interested in Finance should take [\[MGFC50H3\]](#) in the Fall semester of Year 4 of their study, and an additional 2.0 credits in MGF courses. Taking one more course in Finance allows interested students to acquire a better understanding of the fundamental principles of the area.

Human Resources/Organizational Behaviour

Students interested in Human Resources and Organizational Behaviour should take 2.0 credits in MGH courses.

Marketing

Students interested in Marketing should take 2.0 credits in MGM

courses, including 0.5 credit at the D-level.

Strategy & Entrepreneurship

- Students interested in Management Strategy should take either [MGSC03H3](#) or [MGSC05H3](#) and an additional 1.0 credit in MGS courses.
- Students interested in Entrepreneurship should take 2.0 credits in MGS courses that are focused on Entrepreneurship.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Complementary Elective Courses (optional)

The following are some courses from other departments that can be used to complement the Specialist Program in Management and International Business. Students may want to consider these courses as potential electives. Please note that some of these courses require prerequisites which are not included in this program:

- [GASB30H3](#) Asian Religions and Culture
- [ANTA02H3](#) Introduction to Anthropology: Society, Culture and Language
- [ANTB20H3](#) Culture, Politics and Globalization
- [GGRA02H3](#) The Geography of Global Processes
- [IDSB01H3](#) Political Economy of International Development
- [IDSC12H3](#) Economics of Small Enterprise and Microcredit
- [POLB80H3](#) Introduction to International Relations I
- [POLB81H3](#) Introduction to International Relations II

Program notes/tables

Program: SCSPE2432A - Compare

Code	SCSPE2432A	SCSPE2432A
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i></p> <p>The Accounting Specialist program is designed for the student who is interested in acquiring a concentrated core of accounting and related knowledge that is required to become a professional accountant. It provides a solid foundation to prepare students to become Chartered Professional Accountants after graduation. In addition, the Specialist program provides students with the personal and professional attributes necessary to build a successful career in senior management. This program also includes a Co-operative option.</p> <p>The Accounting Specialist program encompasses topics such as introductory to advanced financial and managerial accounting, assurance, taxation, economics, and finance. There is also a range of more advanced electives which cover topics and competencies that incorporate critical thinking and ethical decision making.</p> <p>Program Requirements</p> <p>The Program requires the completion of 16.0 to 17.0 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed):</p> <p>MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit):</p> <p>MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]</p> <p>3. (4.0 credits):</p> <p>MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]</p> <p>4. (3.5 credits):</p>	<p><i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i></p> <p>The Accounting Specialist program also has a Co-op option and is designed for the student who is interested in acquiring a concentrated core of accounting and related knowledge that is required to become a professional accountant. It provides a solid foundation to prepare students to become Chartered Professional Accountants after graduation. In addition, the Specialist program provides students with the personal and professional attributes necessary to build a successful career in senior management.</p> <p>The Accounting Specialist program encompasses topics such as introductory to advanced financial and managerial accounting, assurance, taxation, economics, and finance. There is also a range of more advanced electives which cover topics and competencies that incorporate critical thinking and ethical decision making.</p> <p>Program Requirements</p> <p>The Program requires the completion of 16.5 to 17.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed):</p> <p>MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit):</p> <p>MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]</p> <p>3. (4.0 credits):</p> <p>MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]</p>

[MGAC01H3](#)/(MGTC07H3) Intermediate Financial Accounting I
[MGAC02H3](#)/(MGTC08H3) Intermediate Financial Accounting II
[MGAC03H3](#)/(MGTC06H3) Intermediate Management Accounting
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGAC50H3](#)/(MGTC16H3) Canadian Income Taxation I
[MGAC70H3](#)/(MGTC11H3) Management Information Systems
 MGAD10H3/(MGTD60H3) Auditing

5. At least one D-level course (0.5 credit) from:

[MGAD20H3](#)/(MGTD61H3) Advanced Auditing
[MGAD30H3](#)/(MGTD62H3) Auditing in a Computer Environment
[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting
[MGAD70H3](#)/(MGTD56H3) Advanced Accounting Case Analysis

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

NOTE: Students who are interested in a professional accounting designation can pursue a Chartered Professional Accountancy post-graduation. Students pursuing the Chartered Professional Accountancy (CPA) designation can follow either the **new Chartered Professional Accountancy** requirements or the **Legacy 51 hour credit** Chartered Accountancy requirements.

Requirements:

- **The new Chartered Professional Accountancy (CPA) requirements:** Students interested in CPA designation must also complete: [MGAD40H3](#)/(MGTD54H3) Management Control Systems, [MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting, [MGAC60H3](#)/(MGTC17H3) Canadian Income Taxation II, [MGAD20H3](#)/(MGTD61H3) Advanced Auditing and [MGSC40H3](#) Corporate Governance.
- **Legacy 51 hour credit Chartered Accountancy (CA) requirements:** Students interested in CPA, CA designation must also complete: [MGAC60H3](#)/(MGTC17H3) Canadian Income Taxation II, [MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting, [MGAD20H3](#)/(MGTD61H3) Advanced Auditing, [MGAD30H3](#)/(MGTD62H3) Auditing in a Computer Environment and one of [MGAD40H3](#)/(MGTD54H3) Management Control Systems, [MGAD60H3](#)/(MGTD55H3) Controversial Issues in Accounting or [MGAD70H3](#)/(MGTD56H3) Advanced Accounting Case Analysis.
- **Other:** Regardless of which professional accounting path is chosen students are strongly advised to refer to the CPA Ontario website. This website will have the designation's specified minimum grade and the updated program requirements. It is imperative that students check the following link regularly for current information: <http://www.cpaontario.ca/Students/CPACertification/PreReqEdu/1014page18269.aspx>

4. (4.0 credits):

[MGAC01H3](#)/(MGTC07H3) Intermediate Financial Accounting I
[MGAC02H3](#)/(MGTC08H3) Intermediate Financial Accounting II
[MGAC03H3](#)/(MGTC06H3) Intermediate Management Accounting
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGAC50H3](#)/(MGTC16H3) Canadian Income Taxation I
[MGAC70H3](#)/(MGTC11H3) Management Information Systems
[MGAC10H3](#) or (MGAD10H3)/(MGTD60H3) Auditing
[MGAD70H3](#)/(MGTD56H3) Advanced Accounting Case Analysis: A Capstone Course

5. At least one D-level course (0.5 credit) from:

[MGAD20H3](#)/(MGTD61H3) Advanced Auditing
[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGAD45H3](#)/(MGSC40H3) Corporate Governance and Strategy: CPA Perspective
[MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting
[MGAD65H3](#) or (MGAC60H3)/(MGTC17H3) Canadian Income Taxation III

NOTES:

1. In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

2. The Chartered Professional Accountancy (CPA) requirements:

Students interested in the CPA designation must also complete: [MGAD40H3](#)/(MGTD54H3) Management Control Systems, [MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting, [MGAD65H3](#)/(MGAC60H3) Canadian Income Taxation II, [MGAD20H3](#)/(MGTD61H3) Advanced Auditing and [MGAD45H3](#)/(MGSC40H3) Corporate Governance and Strategy: CPA Perspective.

Students are strongly advised to refer to the CPA Ontario website. This website will have the designation's specified minimum grade and the updated program requirements. It is imperative that students check the following link regularly for current information:

<http://www.cpaontario.ca/Students/CPACertification/PreReqEdu/1014page18269.aspx>

Program notes/tables

Program: SCSPE1160 - Compare

Code	SCSPE1160	SCSPE1160
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	SPECIALIST PROGRAM IN PSYCHOLOGY (SCIENCE)	SPECIALIST PROGRAM IN PSYCHOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at least 1.0 credit must be at the D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. Statistical Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB07H3 Data Analysis in Psychology <i>and</i> b. PSYC08H3 Advanced Data Analysis in Psychology 3. Laboratory Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB01H3 Psychological Research Laboratory <i>and</i> b. 0.5 credit from among the following: PSYC04H3 Brain Imaging Laboratory PSYC05H3 Human Movement Laboratory PSYC06H3 Psychophysiology Laboratory PSYC11H3 Social Psychology Laboratory PSYC26H3 Developmental Psychology Laboratory PSYC58H3 Cognitive Psychology Laboratory NROC63H3 Neuroscience Laboratory 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit) 5. History and Approaches (0.5 credit) <ol style="list-style-type: none"> a. PSYC84H3 Psychology and the Scientific Mind <i>or</i> b. PSYC85H3 History of Psychology 6. Credits at the B-level and C-level (5.0 credits) Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group: <ol style="list-style-type: none"> a. Social and Developmental (courses listed in the 10- and 20-series); b. Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 7. Credits at the D-level (1.0 credit) Students must take a 0.5 credit from each of the groupings listed below: <ol style="list-style-type: none"> a. Group One PSYD11H3 Psychology of Interpersonal Relationships PSYD12H3 Social Psychology of the Self PSYD15H3 Current Topics in Social Psychology PSYD16H3 Critical Analysis in Social Psychology PSYD18H3 Psychology of Gender PSYD20H3 Current Topics in Developmental Psychology PSYD22H3 Socialization Processes PSYD34H3 Human Intelligence b. Group Two PSYD50H3 Current Topics in Memory and Cognition PSYD51H3 Current Topics in Perception PSYD58H3 The Scientific Study of Conscious and Unconscious Influences PSYD66H3 Current Topics in Human Brain and Behaviour 8. Additional credits in Psychology (2.5 credits) Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.5 credits, 	<p>Program Requirements</p> <p>The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at least 1.0 credit must be at the D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. Statistical Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB07H3 Data Analysis in Psychology <i>and</i> b. PSYC08H3 Advanced Data Analysis in Psychology <i>or</i> PSYC09H3 Applied Multiple Regression in Psychology 3. Laboratory Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB01H3 Psychological Research Laboratory <i>and</i> b. 0.5 credit from among the following: PSYC04H3 Brain Imaging Laboratory PSYC05H3 Human Movement Laboratory PSYC06H3 Psychophysiology Laboratory PSYC11H3 Social Psychology Laboratory PSYC26H3 Developmental Psychology Laboratory PSYC58H3 Cognitive Psychology Laboratory NROC63H3 Neuroscience Laboratory 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit) 5. PSYC85H3 History of Psychology 6. Credits at the B-level and C-level (5.0 credits) Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group: <ol style="list-style-type: none"> a. Social and Developmental (courses listed in the 10- and 20-series); b. Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 7. Credits at the D-level (1.0 credit) Students must take a 0.5 credit from each of the groupings listed below: <ol style="list-style-type: none"> a. Group One PSYD11H3 Psychology of Interpersonal Relationships PSYD12H3 Social Psychology of the Self PSYD14H3 Psychology of Morality PSYD15H3 Current Topics in Social Psychology PSYD16H3 Critical Analysis in Social Psychology PSYD18H3 Psychology of Gender PSYD20H3 Current Topics in Developmental Psychology PSYD22H3 Socialization Processes b. Group Two PSYD34H3 Human Intelligence PSYD50H3 Current Topics in Memory and Cognition PSYD51H3 Current Topics in Perception PSYD66H3 Current Topics in Human Brain and Behaviour 8. Additional credits in Psychology (2.5 credits) Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.5 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

1.0 credit must be at the C- or D- level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

Program notes/tables

Program: SCSPE1160A - Compare

Code	SCSPE1160A	SCSPE1160A
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

The Program combines academic studies in the field of psychology with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in psychology. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in basic or applied research. For information on admissions, fees, work terms and standing in the Program, please see the [Co operative Programs](#) section of this *Calendar*.

Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the [Co-operative Programs](#) section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including [PSYA01H3](#) & [PSYA02H3](#) plus a cumulative GPA of at least 2.75.

Work Terms

The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including [PSYB01H3](#), [PSYB07H3](#), [PSYC02H3](#) and [PSYC08H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below before the first work term is undertaken.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements

The program requires the completion of 12.5 credits as specified for the Specialist Program in Psychology.

The program provides a theoretical and methodological foundation for the study of psychological processes relevant to social behaviour, life-span development, perception, memory, language and thought. Students can apply for work term employment in settings such as survey research firms and in government departments and other agencies involved in providing support to persons with disabilities, educational organizations, and research and development departments in the industry.

Program Requirements

The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at 1.0 credit must be at the D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and
[PSYA02H3](#) Introductory Psychology: Part II
(1.0 credit)
2. Statistical Methods (1.0 credit)
 - a. [PSYB07H3](#) Data Analysis in Psychology*
and
 - b. [PSYC08H3](#) Advanced Data Analysis in Psychology*

The Program combines academic studies in the field of psychology with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in psychology. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in basic or applied research. For information on admissions, fees, work terms and standing in the Program, please see the [Co operative Programs](#) section of this *Calendar*.

Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the [Co-operative Programs](#) section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at:

www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including [PSYA01H3](#) & [PSYA02H3](#) plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Psychology, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Mental Health Studies, or vice-versa.

Work Terms

The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including [PSYB01H3](#), [PSYB07H3](#), [PSYC02H3](#) and [PSYC08H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below before the first work term is undertaken.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements

The program requires the completion of 12.5 credits as specified for the Specialist Program in Psychology.

The program provides a theoretical and methodological foundation for the study of psychological processes relevant to social behaviour, life-span development, perception, memory, language and thought. Students can apply for work term employment in settings such as survey research firms and in government departments and other agencies involved in providing support to persons with disabilities, educational organizations, and research and development departments in the industry.

Program Requirements

The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at 1.0 credit must be at the D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and

3. Laboratory Methods (1.0 credit)
- [PSYB01H3](#) Psychological Research Laboratory*
and
 - 0.5 credit from among the following:
[PSYC04H3](#) Brain Imaging Laboratory
[PSYC05H3](#) Human Movement Laboratory
[PSYC06H3](#) Psychophysiology Laboratory
[PSYC11H3](#) Social Psychology Laboratory
[PSYC26H3](#) Developmental Psychology Laboratory
[PSYC58H3](#) Cognitive Psychology Laboratory
[NROC63H3](#) Neuroscience Laboratory
4. [PSYC02H3](#) Scientific Communication in Psychology (0.5 credit)*
5. [History and Approaches \(0.5 credit\)](#)
- [PSYC84H3](#) Psychology and the Scientific Mind
or
 - [PSYC85H3](#) History of Psychology
6. Credits at the B-level and C-level (5.0 credits)
Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group:
- Social and Developmental (courses listed in the 10- and 20-series);
 - Perception, Cognition and Physiology (courses listed in the 50- and 60-series);
7. Credits at the D-level (1.0 credit)
Students must take 0.5 credit from each of the groupings listed below:
- Group One**
[PSYD15H3](#) Current Topics in Social Psychology
[PSYD16H3](#) Critical Analysis in Social Psychology
[PSYD18H3](#) Psychology of Gender
[PSYD20H3](#) Current Topics in Developmental Psychology
[PSYD22H3](#) Socialization Processes
[PSYD34H3](#) Human Intelligence
 - Group Two**
[PSYD50H3](#) Current Topics in Memory and Cognition
[PSYD51H3](#) Current Topics in Perception
[PSYD58H3](#) The Scientific Study of Conscious and Unconscious Influences
[PSYD66H3](#) Current Topics in Human Brain and Behaviour
8. Additional credits in Psychology (2.5 credits)
Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.0 credits, 1.0 credit must be at the C- or D-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.
- (*) These credits must be successfully completed before the first work term.
- [PSYA02H3](#) Introductory Psychology: Part II (1.0 credit)
2. Statistical Methods (1.0 credit)
- [PSYB07H3](#) Data Analysis in Psychology*
and
 - [PSYC08H3](#) Advanced Data Analysis in Psychology or [PSYC09H3](#) Applied Multiple Regression in Psychology*
3. Laboratory Methods (1.0 credit)
- [PSYB01H3](#) Psychological Research Laboratory*
and
 - 0.5 credit from among the following:
[PSYC04H3](#) Brain Imaging Laboratory
[PSYC05H3](#) Human Movement Laboratory
[PSYC06H3](#) Psychophysiology Laboratory
[PSYC11H3](#) Social Psychology Laboratory
[PSYC26H3](#) Developmental Psychology Laboratory
[PSYC58H3](#) Cognitive Psychology Laboratory
[NROC63H3](#) Neuroscience Laboratory
4. [PSYC02H3](#) Scientific Communication in Psychology (0.5 credit)*
5. [PSYC85H3](#) History of Psychology
6. Credits at the B-level and C-level (5.0 credits)
Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group:
- Social and Developmental (courses listed in the 10- and 20-series);
 - Perception, Cognition and Physiology (courses listed in the 50- and 60-series);
7. Credits at the D-level (1.0 credit)
Students must take 0.5 credit from each of the groupings listed below:
- Group One**
[PSYD11H3](#) Psychology of Interpersonal Relationships
[PSYD12H3](#) Social Psychology of the Self
[PSYD14H3](#) Psychology of Morality
[PSYD15H3](#) Current Topics in Social Psychology
[PSYD16H3](#) Critical Analysis in Social Psychology
[PSYD18H3](#) Psychology of Gender
[PSYD20H3](#) Current Topics in Developmental Psychology
[PSYD22H3](#) Socialization Processes
 - Group Two**
[PSYD34H3](#) Human Intelligence
[PSYD50H3](#) Current Topics in Memory and Cognition
[PSYD51H3](#) Current Topics in Perception
[PSYD66H3](#) Current Topics in Human Brain and Behaviour
8. Additional credits in Psychology (2.5 credits)
Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.0 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.
- (*) These credits must be successfully completed before the first work term.

Program notes/tables

Program: SCSPE1013 - Compare

Code	SCSPE1013	SCSPE1013
Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	Sociology	Sociology
Title	SPECIALIST PROGRAM IN SOCIOLOGY (ARTS)	SPECIALIST PROGRAM IN SOCIOLOGY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Admission</p> <p>Enrolment in the Specialist Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Specialist students will be entitled to priority access to SOCC42H3, SOCC43H3, SOCC23H3 & SOCC31H3, for fall-winter sessions, during the summer early registration period.</p> <p>Program Requirements</p> <p>The Program requires completion of 12.0 full credits as described below. No more than 14.0 full credits in Sociology may be included in a four-year degree.</p> <ol style="list-style-type: none"> SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II SOCC05H3 Logic of Social Inquiry STAB22H3 Statistics I SOCC42H3 Classical Sociological Theory I SOCC43H3 Classical Sociological Theory II 3.0 full credits at the B-level in Sociology SOCC40H3 Contemporary Sociological Theory SOCC23H3 Practicum in Qualitative Research Methods <p>or</p> <ol style="list-style-type: none"> SOCC31H3 Practicum in Quantitative Research Methods 5.0 full credits in Sociology at C- or D- level of which at least 1.0 credit must be at the D-level. <p>Note: Students may substitute courses from cognate disciplines with the prior approval of the program supervisor.</p>	<p>Program Admission</p> <p>Enrolment in the Specialist Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Specialist students will be entitled to priority access to SOCC42H3, SOCC43H3, SOCC23H3 & SOCC31H3, for fall-winter sessions, during the summer early registration period.</p> <p>Program Requirements</p> <p>The Program requires completion of 12.0 full credits as described below. No more than 14.0 full credits in Sociology may be included in a four-year degree.</p> <ol style="list-style-type: none"> SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II SOCC05H3 Logic of Social Inquiry STAB23H3 Introduction to Statistics for the Social Sciences SOCC42H3 Classical Sociological Theory I SOCC43H3 Classical Sociological Theory II 3.0 full credits at the B-level in Sociology SOCC40H3 Contemporary Sociological Theory SOCC23H3 Practicum in Qualitative Research Methods <p>or</p> <ol style="list-style-type: none"> SOCC31H3 Practicum in Quantitative Research Methods One C-level SOC course (0.5 credit) that has been designated as an Applied Writing Skills course 4.5 additional credits at the C- or D- level in SOC courses*, of which at least 1.0 credit must be at the D-level. <p>*Students may substitute courses from cognate disciplines with the prior approval of the program supervisor.</p>

Program notes/tables

Program: SCMAJ1013 - Compare

Code	SCMAJ1013	SCMAJ1013
Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	Sociology	Sociology
Title	MAJOR PROGRAM IN SOCIOLOGY (ARTS)	MAJOR PROGRAM IN SOCIOLOGY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Admission Enrolment in the Major Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Major students will be entitled to priority access to SOCB42H3 and SOCB43H3 for fall-winter sessions, in the summer early registration period.</p> <p>Program Requirements The Program requires completion of 7.0 full credits in Sociology including:</p> <ol style="list-style-type: none"> SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II SOCB05H3 Logic of Social Inquiry STAB22H3 Statistics SOCB42H3 Classical Sociological Theory I SOCB43H3 Classical Sociological Theory II 4.0 full credits in Sociology, at least 2.0 of which must be at the C- or D-level 	<p>Program Admission Enrolment in the Major Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Major students will be entitled to priority access to SOCB42H3 and SOCB43H3 for fall-winter sessions, in the summer early registration period.</p> <p>Program Requirements The Program requires completion of 7.0 full credits in Sociology including:</p> <ol style="list-style-type: none"> SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II SOCB05H3 Logic of Social Inquiry STAB23H3 Introduction to Statistics for the Social Sciences SOCB42H3 Classical Sociological Theory I SOCB43H3 Classical Sociological Theory II One C-level SOC course (0.5 credit) that has been designated as an Applied Writing Skills course 3.5 additional credits in SOC courses, of which at least 1.5 credits must be at the C- or D-level

Program notes/tables

Program: SCSPE1688C - Compare

Code	SCSPE1688C	SCSPE1688C
Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	Computer Science	Computer Science
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>Email:</i> pancer@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>Program Objectives This program combines the coursework of the Specialist Program in Computer Science described above with paid work terms in public and private enterprises. It shares the goals and structure of the Specialist Program in Computer Science, including its <u>four</u> streams (Comprehensive, Software Engineering, Information Systems, and Health Informatics), but complements study of the subject with considerable work experience.</p> <p>Program Admission Refer to the Program Admission requirements for the Specialist Program in Computer Science described above and the Co-operative Programs section in this <i>Calendar</i>. Students entering this program after first year must have a CGPA of at least 2.75.</p> <p>Program Requirements To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.</p> <p>Work Term Requirements Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.</p> <p>Course Requirements The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Computer Science. For the course requirements of each stream, please refer to the description of the Specialist Program in Computer Science.</p>	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) <i>Email:</i> pancer@utsc.utoronto.ca</p> <p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>Program Objectives This program combines the coursework of the Specialist Program in Computer Science described above with paid work terms in public and private enterprises. It shares the goals and structure of the Specialist Program in Computer Science, including its <u>five</u> streams (Comprehensive, Software Engineering, Information Systems, Health Informatics, and Entrepreneurship), but complements study of the subject with considerable work experience.</p> <p>Program Admission Refer to the Program Admission requirements for the Specialist Program in Computer Science described above and the Co-operative Programs section in this <i>Calendar</i>. Students entering this program after first year must have a CGPA of at least 2.75. Admission to the Entrepreneurship also requires the submission of a Supplementary Application form available from the CMS website.</p> <p>Program Requirements To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.</p> <p>Work Term Eligibility & Requirements Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete a minimum of 7.0 credits, including all first year required courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3), as well as the non-credit Arts & Science Co-op Navigating the World of Work Course (COPD01).</p> <p>Course Requirements The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Computer Science. For the course requirements of each stream, please refer to the description of the Specialist Program in Computer Science.</p>

Program notes/tables

Program: SCMAJ0215 - Compare

Code	SCMAJ0215	SCMAJ0215
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MAJOR PROGRAM IN HUMAN BIOLOGY (SCIENCE)	MAJOR PROGRAM IN HUMAN BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Terebiznik <i>Email:</i> human-biology@utsc.utoronto.ca</p> <p>The Human Biology major program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to human health. Upper year courses are available in physiology, cell and molecular biology, anatomy, microbiology, pathology, endocrinology, anthropology, psychology and biochemistry. This program is suitable for students with an interest in applied biology in health sciences or in social sciences related to human health.</p> <p>Program Requirements: This program consists of 8.5 credits.</p> <p>Required Courses and Suggested Course Sequence</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit in Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Introductory Psychology Courses PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II</p> <p>0.5 Credit in Mathematics or Statistics Choose From: MATA30H3 Calculus I for Biological and Physical Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit in a Biology Core Lab Choose From: BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy</p> <p><i>Third/Fourth Years</i></p> <p>1.5 Credits of Additional C-Level Courses Choose From: BIOC10H3 Cell Biology: Proteins from Life to Death BIOC14H3 Genes, Environment and Behaviour BIOC15H3 Genetics BIOC16H3 Evolutionary Genetics and Genomics BIOC17H3 Microbiology BIOC19H3 Animal Developmental Biology BIOC21H3 Vertebrate Histology: Cells and Tissues BIOC32H3 Human Physiology I BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture] BIOC39H3 Immunology BIOC58H3 Biological Consequences of Global Change BIOC65H3 Environmental Toxicology NROC61H3 Learning and Motivation NROC64H3 Sensorimotor Systems NROC69H3 Synaptic Organisation and Physiology of the Brain</p>	<p><i>Supervisor:</i> Until June 30, 2016: M. Terebiznik; Effective July 1, 2016: A. Ashok <i>Email:</i> human-biology@utsc.utoronto.ca</p> <p>The Human Biology major program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to human health. Upper year courses are available in physiology, cell and molecular biology, anatomy, microbiology, pathology, endocrinology, anthropology, psychology and biochemistry. This program is suitable for students with an interest in applied biology in health sciences or in social sciences related to human health.</p> <p>Program Requirements: This program consists of 8.5 credits.</p> <p>Required Courses and Suggested Course Sequence</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit in Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Introductory Psychology Courses PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II</p> <p>0.5 Credit in Mathematics or Statistics Choose From: MATA29H3 Calculus I for the Life Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>2.5 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit in a Biology Core Lab Choose From: BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy</p> <p><i>Third/Fourth Years</i></p> <p>1.5 Credits of Additional C-Level Courses Choose From: BIOC10H3 Cell Biology: Proteins from Life to Death BIOC14H3 Genes, Environment and Behaviour BIOC15H3 Genetics BIOC16H3 Evolutionary Genetics and Genomics BIOC17H3 Microbiology BIOC19H3 Animal Developmental Biology BIOC21H3 Vertebrate Histology: Cells and Tissues BIOC32H3 Human Physiology I BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture] BIOC39H3 Immunology BIOC58H3 Biological Consequences of Global Change BIOC65H3 Environmental Toxicology NROC61H3 Learning and Motivation NROC64H3 Sensorimotor Systems</p>

0.5 Credit of Additional D-Level Biology Courses

Choose From:

- [BIOD08H3](#) Theoretical Neuroscience
- [BIOD17H3](#) Seminars in Cellular Microbiology
- [BIOD19H3](#) Epigenetics in Health and Disease
- [BIOD26H3](#) Fungal Biology and Pathogenesis
- [BIOD29H3](#) Pathobiology of Human Disease
- [BIOD33H3](#) Comparative Animal Physiology
- [BIOD43H3](#) Animal Movement and Exercise
- [BIOD65H3](#) Pathologies of the Nervous System
- [BIOD95H3](#) Supervised Study in Biology (topic must be human-related and approved by the program supervisor)
- [NROD66H3](#) Drug Addiction
- [NROD67H3](#) Psychobiology of Aging

[NROC69H3](#) Synaptic Organisation and Physiology of the Brain**0.5 Credit of Additional D-Level Biology Courses**

Choose From:

- [BIOD08H3](#) Theoretical Neuroscience
- [BIOD17H3](#) Seminars in Cellular Microbiology
- [BIOD19H3](#) Epigenetics in Health and Disease
- [BIOD26H3](#) Fungal Biology and Pathogenesis
- [BIOD29H3](#) Pathobiology of Human Disease
- [BIOD33H3](#) Comparative Animal Physiology
- [BIOD35H3](#) Sports Science
- [BIOD43H3](#) Animal Movement and Exercise
- [BIOD65H3](#) Pathologies of the Nervous System
- [BIOD95H3](#) Supervised Study in Biology (topic must be human-related and approved by the program supervisor)
- [NROD66H3](#) Drug Addiction
- [NROD67H3](#) Psychobiology of Aging

Program notes/tables

Program: SCSPE1030A - Compare

Code	SCSPE1030A	SCSPE1030A
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY (SCIENCE)	SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Andrade <i>Email:</i> integrative-biology@utsc.utoronto.ca</p> <p>In today's rapidly changing world, the development of solutions to combat some of the most pressing global challenges such as climate change, emerging diseases, hunger and species extinction, requires an integrative approach in which expertise is drawn from disparate biological and other disciplines. The specialist program in Integrative Biology provides the student with a solid knowledge base in key core and foundational areas of biology while also providing a breadth of knowledge to support more specialized studies and focused training in a range of disciplines (for examples, see below under "Routes to Specialization"). Students who complete this program will be well positioned for a career in many aspects of the biological sciences or to undertake further studies at the professional or graduate level.</p> <p>Program Requirements</p> <p>This program consists of 14.5 required credits including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level.</p> <p>A. Required Courses</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics</p> <p>Choose from:</p> <p>PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>0.5 Credit in Computer Science</p> <p>Choose from:</p> <p>CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students) CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students) PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs</p> <p>Choose from:</p> <p>BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p>0.5 Credit in Statistics</p> <p>Choose from:</p>	<p><i>Supervisor:</i> Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik <i>Email:</i> integrative-biology@utsc.utoronto.ca</p> <p>In today's rapidly changing world, the development of solutions to combat some of the most pressing global challenges such as climate change, emerging diseases, hunger and species extinction, requires an integrative approach in which expertise is drawn from disparate biological and other disciplines. The specialist program in Integrative Biology provides the student with a solid knowledge base in key core and foundational areas of biology while also providing a breadth of knowledge to support more specialized studies and focused training in a range of disciplines (for examples, see below under "Routes to Specialization"). Students who complete this program will be well positioned for a career in many aspects of the biological sciences or to undertake further studies at the professional or graduate level.</p> <p>Program Requirements</p> <p>This program consists of 14.5 required credits including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level.</p> <p>A. Required Courses</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses</p> <p>BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses</p> <p>CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>1.0 Credit in Mathematics</p> <p>MATA29H3 Calculus I for the Life Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics</p> <p>Choose from:</p> <p>PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>0.5 Credit in Computer Science</p> <p>Choose from:</p> <p>CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students) CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students) PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs</p> <p>Choose from:</p> <p>BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p>

[STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

Third Year

1.5 Credits of Biology Foundation Courses

[BIOC15H3](#) Genetics
[BIOC17H3](#) Microbiology
[BIOC54H3](#) Animal Behaviour

Third/Fourth Year

0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology

Choose from:

[BIOC12H3](#) Biochemistry I: Proteins and Enzymes
[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism
[BIOC23H3](#) Practical Approaches to Biochemistry
[BIOC32H3](#) Human Physiology I
[BIOC33H3](#) Human Physiology II: Lecture and Laboratory
[BIOC34H3](#) Human Physiology II: Lecture
[BIOC39H3](#) Immunology
[BIOC40H3](#) Plant Physiology
[BIOC65H3](#) Environmental Toxicology
[ANTC67H3](#) Foundations in Epidemiology
[NROC34H3](#) Neuroethology
[NROC61H3](#) Learning and Motivation
[NROC64H3](#) Sensorimotor Systems
[PSYC31H3](#) Clinical Neuropsychology
[BIOD08H3](#) Theoretical Neuroscience
[BIOD27H3](#) Molecular Endocrinology
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System
[NROD67H3](#) Psychobiology of Aging

0.5 Credit of Advanced Courses in Ecology and Conservation

Choose from:

[BIOC50H3](#) Macroevolution
[BIOC51H3](#) Tropical Biodiversity Field Course
[BIOC52H3](#) Ecology Field Course
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC59H3](#) Advanced Population Ecology
[BIOC61H3](#) Community Ecology and Environmental Biology
[BIOC62H3](#) Role of Zoos in Conservation
[BIOC63H3](#) Conservation Biology
 (BIOC67H3) Inter-University Biology Field Course
[EESC04H3](#) Biodiversity and Biogeography
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes and Consequences of Diversity
[BIOD67H3](#) Inter-University Biology Field Course

0.5 Credit of Advanced Courses in Genes and Development

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death
[BIOC14H3](#) Genes, Environment and Behaviour
[BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC19H3](#) Animal Developmental Biology
[BIOC31H3](#) Plant Development and Biotechnology
[BIOD19H3](#) Epigenetics in Health and Disease
[BIOD21H3](#) Advanced Molecular Biology Laboratory
[BIOD22H3](#) Molecular Biology of the Stress Response
[BIOD23H3](#) Special Topics in Cell Biology
[BIOD25H3](#) Genomics

0.5 Credit of Advanced Courses in Organismal Biology

Choose from:

[BIOC21H3](#) Vertebrate Histology: Cells and Tissues
 (BGYC22H3) Vertebrate Histology: Organs
[ANTD22H3](#) Theory and Methodology of Primatology
[ANTC68H3](#) Deconstructing Epidemics

0.5 Credit in Statistics

Choose from:

[STAB22H3](#) Statistics I
[PSYB07H3](#) Data Analysis in Psychology

Third Year

1.5 Credits of Biology Foundation Courses

[BIOC15H3](#) Genetics
[BIOC17H3](#) Microbiology
[BIOC54H3](#) Animal Behaviour

Third/Fourth Year

0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology

Choose from:

[BIOC12H3](#) Biochemistry I: Proteins and Enzymes
[BIOC13H3](#) Biochemistry II: Bioenergetics and Metabolism
[BIOC23H3](#) Practical Approaches to Biochemistry
[BIOC32H3](#) Human Physiology I
[BIOC33H3](#) Human Physiology II: Lecture and Laboratory
[BIOC34H3](#) Human Physiology II: Lecture
[BIOC39H3](#) Immunology
[BIOC40H3](#) Plant Physiology
[BIOC65H3](#) Environmental Toxicology
[ANTC67H3](#) Foundations in Epidemiology
[NROC34H3](#) Neuroethology
[NROC61H3](#) Learning and Motivation
[NROC64H3](#) Sensorimotor Systems
[PSYC31H3](#) Clinical Neuropsychology
[BIOD08H3](#) Theoretical Neuroscience
[BIOD27H3](#) Molecular Endocrinology
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD35H3](#) Sports Science
[BIOD43H3](#) Animal Movement and Exercise
[BIOD65H3](#) Pathologies of the Nervous System
[NROD67H3](#) Psychobiology of Aging

0.5 Credit of Advanced Courses in Ecology and Conservation

Choose from:

[BIOC50H3](#) Macroevolution
[BIOC51H3](#) Tropical Biodiversity Field Course
[BIOC52H3](#) Ecology Field Course
[BIOC58H3](#) Biological Consequences of Global Change
[BIOC59H3](#) Advanced Population Ecology
[BIOC61H3](#) Community Ecology and Environmental Biology
[BIOC62H3](#) Role of Zoos in Conservation
[BIOC63H3](#) Conservation Biology
 (BIOC67H3) Inter-University Biology Field Course
[EESC04H3](#) Biodiversity and Biogeography
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes and Consequences of Diversity
[BIOD67H3](#) Inter-University Biology Field Course

0.5 Credit of Advanced Courses in Genes and Development

Choose from:

[BIOC10H3](#) Cell Biology: Proteins from Life to Death
[BIOC14H3](#) Genes, Environment and Behaviour
[BIOC16H3](#) Evolutionary Genetics and Genomics
[BIOC19H3](#) Animal Developmental Biology
[BIOC31H3](#) Plant Development and Biotechnology
[BIOD19H3](#) Epigenetics in Health and Disease
[BIOD21H3](#) Advanced Molecular Biology Laboratory
[BIOD22H3](#) Molecular Biology of the Stress Response
[BIOD23H3](#) Special Topics in Cell Biology
[BIOD25H3](#) Genomics

0.5 Credit of Advanced Courses in Organismal Biology

Choose from:

[BIOC21H3](#) Vertebrate Histology: Cells and Tissues

[EESC30H3](#) (Microbial Biogeochemistry)
[BIOC37H3](#) Plants: Life on the Edge
 (BIOC38H3) Plants and Society
[BIOC60H3](#) Winter Ecology
[BIOD17H3](#) Seminars in Cellular Microbiology
[BIOD26H3](#) Fungal Biology and Pathogenesis
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD33H3](#) Comparative Animal Physiology
[BIOD37H3](#) Biology of Plant Stress
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology and Herpetology
[BIOD53H3](#) Special Topics in Behavioural Ecology

3.0 Credits of Additional C- or D-Level Biology Courses

Choose from:

Any BIO (or formerly BGY) C- or D-level courses offered by the department.

Note: this includes the Biology Team Research, Supervised Studies and Directed Research courses ([BIOC99H3](#), [BIOD95H3](#), [BIOD98Y3](#) and [BIOD99Y3](#)).

Note: [NROC34H3](#) (Neuroethology), [EESC04H3](#) (Biodiversity and Biogeography) and [EESC30H3](#) (Microbial Biogeochemistry) may also be used toward fulfilling this requirement, if not already used toward fulfilling one of the other requirements above.

B. Routes to Specialization (optional)

A key advantage of the specialist program in Integrative Biology is the ability for students to readily specialize in areas of particular interest.

Please note that students are not required to follow any of these suggested routes. They are provided for guidance only.

- For students with a particular interest in "The Impact of Environment and Climate Change on the Biology of Ecosystems", you should consider including some or all of the following courses in your program: [BIOB52H3](#) (Ecology and Evolutionary Biology Lab), [BIOC52H3](#) (Ecology Field Course), [BIOC58H3](#) (Biological Consequences of Global Change), [BIOC59H3](#) (Advanced Population Ecology), [BIOC60H3](#) (Winter Ecology), [BIOC61H3](#) (Community Ecology and Environmental Biology) and (BIOC67H3) (Inter-University Biology Field Course).
- For students with a particular interest in "The Conservation and Biodiversity of Organisms", you should consider including some or all of the following courses in your program: [BIOC51H3](#) (Tropical Biodiversity Field Course), [BIOC62H3](#) (Role of Zoos in Conservation), [BIOC63H3](#) (Conservation Biology), [BIOD48H3](#) (Ornithology and Herpetology), [BIOD52H3](#) (Special Topics in Biodiversity and Systematics), [BIOD54H3](#) (Applied Conservation Ecology), [BIOD60H3](#) (Spatial Ecology) & [BIOD66H3](#) (Causes and Consequences of Biodiversity).
- For students with a particular interest in "Animal Physiology", you should consider including some or all of the following courses in your program: [BIOB32H3](#) (Animal Physiology Laboratory), [BIOC32H3](#) (Human Physiology I), [BIOC33H3](#) or [BIOC34H3](#) (Human Physiology II), [BIOD29H3](#) (Pathobiology of Human Disease), [BIOD33H3](#) (Comparative Animal Physiology), & [BIOD43H3](#) (Animal Movement and Exercise).
- For students with a particular interest in "Ecophysiology", you should consider including some or all of the following courses in your program: [BIOC65H3](#) (Environmental Toxicology), [EESC30H3](#) (Microbial Biogeochemistry), [BIOD33H3](#) (Comparative Animal Physiology) & [BIOD37H3](#) (Biology of Plant Stress).
- For students with a particular interest in "Infection and Disease" or "clinically-oriented topics", you should consider including some or all of the following courses in your program: [ANTC67H3](#) (Foundations in Epidemiology) or [ANTC68H3](#) (Deconstructing Epidemics), [BIOB33H3](#) (Human Development and Anatomy), [BIOC21H3](#) (Vertebrate Histology: Cells and Tissues), [BIOC33H3](#) or [BIOC34H3](#) (Human Physiology II), [BIOC39H3](#) (Immunology), [BIOD17H3](#) (Seminars in Cellular Microbiology), [BIOD25H3](#)

[ANTD22H3](#) Theory and Methodology of Primatology
[ANTC68H3](#) Deconstructing Epidemics
[EESC30H3](#) (Environmental Microbiology)
[BIOC37H3](#) Plants: Life on the Edge
 (BIOC38H3) Plants and Society
[BIOC60H3](#) Winter Ecology
[BIOD17H3](#) Seminars in Cellular Microbiology
[BIOD26H3](#) Fungal Biology and Pathogenesis
[BIOD29H3](#) Pathobiology of Human Disease
[BIOD33H3](#) Comparative Animal Physiology
[BIOD37H3](#) Biology of Plant Stress
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology
[BIOD53H3](#) Special Topics in Behavioural Ecology

3.0 Credits of Additional C- or D-Level Biology Courses

Choose from:

Any BIO (or formerly BGY) C- or D-level courses offered by the department.

Note: this includes the Biology Team Research, Supervised Studies and Directed Research courses ([BIOC99H3](#), [BIOD95H3](#), [BIOD98Y3](#) and [BIOD99Y3](#)).

Note: [NROC34H3](#) (Neuroethology), [EESC04H3](#) (Biodiversity and Biogeography) and [EESC30H3](#) (Environmental Microbiology) may also be used toward fulfilling this requirement, if not already used toward fulfilling one of the other requirements above.

B. Routes to Specialization (optional)

A key advantage of the specialist program in Integrative Biology is the ability for students to readily specialize in areas of particular interest.

Please note that students are not required to follow any of these suggested routes. They are provided for guidance only.

- For students with a particular interest in "The Impact of Environment and Climate Change on the Biology of Ecosystems", you should consider including some or all of the following courses in your program: [BIOB52H3](#) (Ecology and Evolutionary Biology Lab), [BIOC52H3](#) (Ecology Field Course), [BIOC58H3](#) (Biological Consequences of Global Change), [BIOC59H3](#) (Advanced Population Ecology), [BIOC60H3](#) (Winter Ecology), [BIOC61H3](#) (Community Ecology and Environmental Biology) and (BIOC67H3) (Inter-University Biology Field Course).
- For students with a particular interest in "The Conservation and Biodiversity of Organisms", you should consider including some or all of the following courses in your program: [BIOC51H3](#) (Tropical Biodiversity Field Course), [BIOC62H3](#) (Role of Zoos in Conservation), [BIOC63H3](#) (Conservation Biology), [BIOD48H3](#) (Ornithology), [BIOD52H3](#) (Special Topics in Biodiversity and Systematics), [BIOD54H3](#) (Applied Conservation Ecology), [BIOD60H3](#) (Spatial Ecology) & [BIOD66H3](#) (Causes and Consequences of Biodiversity).
- For students with a particular interest in "Animal Physiology", you should consider including some or all of the following courses in your program: [BIOB32H3](#) (Animal Physiology Laboratory), [BIOC32H3](#) (Human Physiology I), [BIOC33H3](#) or [BIOC34H3](#) (Human Physiology II), [BIOD29H3](#) (Pathobiology of Human Disease), [BIOD33H3](#) (Comparative Animal Physiology), & [BIOD43H3](#) (Animal Movement and Exercise).
- For students with a particular interest in "Ecophysiology", you should consider including some or all of the following courses in your program: [BIOC65H3](#) (Environmental Toxicology), [EESC30H3](#) (Environmental Microbiology), [BIOD33H3](#) (Comparative Animal Physiology) & [BIOD37H3](#) (Biology of Plant Stress).
- For students with a particular interest in "Infection and Disease" or "clinically-oriented topics", you should consider including some or all of the following courses in your program: [ANTC67H3](#) (Foundations in Epidemiology) or [ANTC68H3](#) (Deconstructing Epidemics), [BIOB33H3](#) (Human Development and Anatomy), [BIOC21H3](#) (Vertebrate Histology: Cells and Tissues), [BIOC33H3](#)

(Genomics), [BIOD26H3](#) (Fungal Biology and Pathogenesis), [BIOD29H3](#) (Pathobiology of Human Disease) & [BIOD65H3](#) (Pathologies of the Nervous System).

- For students with a particular interest in "Plant and Microbial Biology", you should consider including some or all of the following courses in your program: [BIOC31H3](#) (Plant Development and Biotechnology), [EESC30H3](#) (Microbial Biogeochemistry), [BIOD17H3](#) (Seminars in Cellular Microbiology) and [BIOD37H3](#) (Biology of Plant Stress).
- For students with a particular interest in "Behavioural Biology" you should consider including some or all of the following courses in your program: [NROC34H3](#) (Neuroethology), [BIOD45H3](#) (Animal Communication), [BIOD53H3](#) (Special Topics in Behavioural Ecology) & [NROC61H3](#) (Learning and Motivation).
- For students with a particular interest in "Behavioural Genetics", you should consider including some or all of the following courses in your program: [BIOC16H3](#) (Evolutionary Genetics and Genomics), [NROC34H3](#) (Neuroethology), [BIOD21H3](#) (Advanced Molecular Biology Laboratory), [BIOD22H3](#) (Molecular Biology of the Stress Response), [BIOD23H3](#) (Special Topics in Cell Biology), [BIOD25H3](#) (Genomics), [BIOD45H3](#) (Animal Communication), and [BIOD53H3](#) (Special Topics in Behavioural Ecology).
- For students with a particular interest in "The Evolution of Development" (a.k.a. "evo/devo"), you should consider including some or all of the following courses in your program: [BIOC12H3](#) (Biochemistry I: Proteins and Enzymes), [BIOC13H3](#) (Biochemistry II: Bioenergetics and Metabolism), [BIOC16H3](#) (Evolutionary Genetics and Genomics), [BIOC19H3](#) (Animal Developmental Biology), [BIOC23H3](#) (Practical Approaches to Biochemistry), [BIOC31H3](#) (Plant Development and Biotechnology), [BIOC33H3](#) (Human Physiology II: Lecture and Laboratory) or [BIOC34H3](#) (Human Physiology II: Lecture), [BIOD21H3](#) (Advanced Molecular Biology Laboratory), [BIOD22H3](#) (Molecular Biology of the Stress Response), [BIOD23H3](#) (Special Topics in Cell Biology), & [BIOD25H3](#) (Genomics).

or [BIOC34H3](#) (Human Physiology II), [BIOC39H3](#) (Immunology), [BIOD17H3](#) (Seminars in Cellular Microbiology), [BIOD25H3](#) (Genomics), [BIOD26H3](#) (Fungal Biology and Pathogenesis), [BIOD29H3](#) (Pathobiology of Human Disease) & [BIOD65H3](#) (Pathologies of the Nervous System).

- For students with a particular interest in "Plant and Microbial Biology", you should consider including some or all of the following courses in your program: [BIOC31H3](#) (Plant Development and Biotechnology), [EESC30H3](#) (Environmental Microbiology), [BIOD17H3](#) (Seminars in Cellular Microbiology) and [BIOD37H3](#) (Biology of Plant Stress).
- For students with a particular interest in "Behavioural Biology" you should consider including some or all of the following courses in your program: [NROC34H3](#) (Neuroethology), [BIOD45H3](#) (Animal Communication), [BIOD53H3](#) (Special Topics in Behavioural Ecology) & [NROC61H3](#) (Learning and Motivation).
- For students with a particular interest in "Behavioural Genetics", you should consider including some or all of the following courses in your program: [BIOC16H3](#) (Evolutionary Genetics and Genomics), [NROC34H3](#) (Neuroethology), [BIOD21H3](#) (Advanced Molecular Biology Laboratory), [BIOD22H3](#) (Molecular Biology of the Stress Response), [BIOD23H3](#) (Special Topics in Cell Biology), [BIOD25H3](#) (Genomics), [BIOD45H3](#) (Animal Communication), and [BIOD53H3](#) (Special Topics in Behavioural Ecology).
- For students with a particular interest in "The Evolution of Development" (a.k.a. "evo/devo"), you should consider including some or all of the following courses in your program: [BIOC12H3](#) (Biochemistry I: Proteins and Enzymes), [BIOC13H3](#) (Biochemistry II: Bioenergetics and Metabolism), [BIOC16H3](#) (Evolutionary Genetics and Genomics), [BIOC19H3](#) (Animal Developmental Biology), [BIOC23H3](#) (Practical Approaches to Biochemistry), [BIOC31H3](#) (Plant Development and Biotechnology), [BIOC33H3](#) (Human Physiology II: Lecture and Laboratory) or [BIOC34H3](#) (Human Physiology II: Lecture), [BIOD21H3](#) (Advanced Molecular Biology Laboratory), [BIOD22H3](#) (Molecular Biology of the Stress Response), [BIOD23H3](#) (Special Topics in Cell Biology), [BIOD35H3](#) (Sports Science) and [BIOD25H3](#) (Genomics).

Program notes/tables

Program: SCMAJ1030A - Compare

Code	SCMAJ1030A	SCMAJ1030A
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MAJOR PROGRAM IN BIOLOGY (SCIENCE)	MAJOR PROGRAM IN BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Andrade <i>Email:</i> biology-major@utsc.utoronto.ca</p> <p>Biology is the study of life and this major program in Biology is meant to provide students with a solid basic knowledge of this vast discipline, while also allowing the student to tailor their program in the upper years toward one or more biological sub-disciplines. Many of the world's most important and timely issues (medical science and disease, conservation and biodiversity, food and energy supplies) are issues that require citizens to have a firm understanding of biological principles and practices.</p> <p>Program Requirements This program consists of 8.0 required credits.</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Mathematics or Statistics Choose from: MATA30H3 Calculus I for Biological and Physical Sciences STAB22H3 Statistics I (this course could also be taken in second year) PSYB07H3 Data Analysis in Psychology (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs Choose from: BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>1.5 Credits of Additional C-level Biology Courses Choose from: Any BIO C-level courses offered by the department. Note: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Microbial Biogeochemistry) may also be used toward fulfilling this requirement.</p> <p><i>Fourth Year</i></p> <p>0.5 Credit of Additional D-Level Biology Courses Choose from: Any BIO D-level courses offered by the department. Note: that this includes the Biology Supervised Studies and Directed Research courses (BIOD95H3, BIOD98Y3 & BIOD99Y3).</p>	<p><i>Supervisor:</i> Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik <i>Email:</i> biology-major@utsc.utoronto.ca</p> <p>Biology is the study of life and this major program in Biology is meant to provide students with a solid basic knowledge of this vast discipline, while also allowing the student to tailor their program in the upper years toward one or more biological sub-disciplines. Many of the world's most important and timely issues (medical science and disease, conservation and biodiversity, food and energy supplies) are issues that require citizens to have a firm understanding of biological principles and practices.</p> <p>Program Requirements This program consists of 8.0 required credits.</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Mathematics or Statistics Choose from: MATA29H3 Calculus I for the Life Sciences STAB22H3 Statistics I (this course could also be taken in second year) PSYB07H3 Data Analysis in Psychology (this course could also be taken in second year)</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I] BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs Choose from: BIOB12H3 Cell and Molecular Biology Laboratory BIOB32H3 Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy Laboratory BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>1.5 Credits of Additional C-level Biology Courses Choose from: Any BIO C-level courses offered by the department. Note: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement.</p> <p><i>Fourth Year</i></p> <p>0.5 Credit of Additional D-Level Biology Courses Choose from: Any BIO D-level courses offered by the department. Note: that this includes the Biology Supervised Studies and Directed Research courses (BIOD95H3, BIOD98Y3 & BIOD99Y3).</p>

Program notes/tables

Program: SCMIN1030A - Compare

Code	SCMIN1030A	SCMIN1030A
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MINOR PROGRAM IN BIOLOGY (SCIENCE)	MINOR PROGRAM IN BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Andrade <i>Email:</i> biology-minor@utsc.utoronto.ca</p> <p>Program Requirements This program must include one credit of the introductory biology courses (BIOA01H3 & BIOA02H3) plus 3.0 other credits in Biology, of which at least one credit must be at the C- or D-level. Note: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Microbial Biogeochemistry) may also be used toward fulfilling this requirement.</p>	<p><i>Supervisor:</i> Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik <i>Email:</i> biology-minor@utsc.utoronto.ca</p> <p>Program Requirements This program must include one credit of the introductory biology courses (BIOA01H3 & BIOA02H3) plus 3.0 other credits in Biology, of which at least one credit must be at the C- or D-level. Note: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement.</p>

Program notes/tables

Program: SCMAJ2735 - Compare

Code	SCMAJ2735	SCMAJ2735
Owning Organizations	PHSSC,EST	PHSSC,EST
Sections	Environmental Studies	Environmental Studies
Title	MAJOR PROGRAM IN ENVIRONMENTAL STUDIES (ARTS)	MAJOR PROGRAM IN ENVIRONMENTAL STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Director:</i> N. Klenk (416-208-5089) <i>Email:</i> nicole.klenk@utoronto.ca</p> <p>Companion majors include: Anthropology, Human Geography, Political Science, Public Policy, Sociology, Biology, Biodiversity, Ecology and Evolution, Chemistry, Biochemistry, and Environmental Science, Physics and Astrophysics, and Physical Sciences. Other majors are possible with permission of the Supervisor of Study.</p> <p>Program Requirements Completion of 8.5 credits as follows:</p> <p>1. Core Courses (2.5 credits) EESA01H3 Introduction to Environmental Science [MGEA01H3]/(ECMA01H3) Introduction to Microeconomics or MGEA05H3/(ECMA05H3) Introduction to Macroeconomics] ESTB01H3 Introduction to Environmental Studies and 0.5 credit chosen from: ANTB01H3 Political Ecology GGRA03H3 Cities and Environments POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II POLB80H3 Introduction to International Relations I and 0.5 credit chosen from: EESA06H3 Introduction to Planet Earth EESA07H3 Water EESA09H3 Wind EESA10H3 Human Health and the Environment EESA11H3 Environmental Pollution EESB18H3 Natural Hazards</p> <p>2. Foundations & Skills (4.0 credits) ESTC35H3 Environmental Science and Technology in Society ESTC36H3 Knowledge, Ethics and Environmental Decision-Making IDSB02H3 Development and Environment STAB22H3 Statistics I (or equivalent) and 2.0 credits chosen from: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB17H3 Hydro Politics and Transboundary Water Resources Management EESC13H3 Environmental Impact Assessment and Auditing EESD13H3 Environmental Law and Ethics ESTC34H3 Sustainability in Practice GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB21H3 Environments and Environmentalisms GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development POLC53H3 Canadian Environmental Policy POLD89H3 Global Environmental Politics SOCC37H3 Environment and Society</p> <p>3. Capstone & Applications (2.0 credits) ESTD16H3 Project Management in Environmental Studies ESTD17Y3 Cohort Capstone Course in Environmental Studies ESTD18H3 Environmental Studies Seminar Series</p>	<p><i>Supervisor of Studies:</i> J. MacLellan (416-208-2661) <i>Email:</i> jim.maclellan@utoronto.ca</p> <p>Companion majors include: Anthropology, Human Geography, Political Science, Public Policy, Sociology, Biology, Biodiversity, Ecology and Evolution, Chemistry, Biochemistry, and Environmental Science, Physics and Astrophysics, and Physical Sciences. Other majors are possible with permission of the Supervisor of Study.</p> <p>Program Requirements Completion of 8.5 credits as follows:</p> <p>1. Core Courses (2.5 credits) EESA01H3 Introduction to Environmental Science [MGEA01H3]/(ECMA01H3) Introduction to Microeconomics or MGEA05H3/(ECMA05H3) Introduction to Macroeconomics] ESTB01H3 Introduction to Environmental Studies and 0.5 credit chosen from: ANTB01H3 Political Ecology GGRA03H3 Cities and Environments POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II POLB80H3 Introduction to International Relations I and 0.5 credit chosen from: EESA06H3 Introduction to Planet Earth EESA07H3 Water EESA09H3 Wind EESA10H3 Human Health and the Environment EESA11H3 Environmental Pollution EESB18H3 Natural Hazards</p> <p>2. Foundations & Skills (4.0 credits) ESTC35H3 Environmental Science and Technology in Society ESTC36H3 Knowledge, Ethics and Environmental Decision-Making IDSB02H3 Development and Environment STAB22H3 Statistics I (or equivalent) and 2.0 credits chosen from: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB17H3 Hydro Politics and Transboundary Water Resources Management EESC13H3 Environmental Impact Assessment and Auditing EESD13H3 Environmental Law, Policy, and Ethics ESTC34H3 Sustainability in Practice GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB21H3 Environments and Environmentalisms GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development POLC53H3 Canadian Environmental Policy POLD89H3 Global Environmental Politics SOCC37H3 Environment and Society</p> <p>3. Capstone & Applications (2.0 credits) ESTD16H3 Project Management in Environmental Studies ESTD17Y3 Cohort Capstone Course in Environmental Studies ESTD18H3 Environmental Studies Seminar Series</p>

Program notes/tables

Program: SCMAJ1150 - Compare

Code	SCMAJ1150	SCMAJ1150
Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	Biological Sciences	Biological Sciences
Title	MAJOR PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)	MAJOR PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> M. Andrade <i>E-mail:</i> biodiversity@utsc.utoronto.ca</p> <p>This program provides background and training in modern biological approaches to the study of biodiversity, ecology, and evolution. The links between these fields are emphasized, and topics covered range from the structure and function of ecosystems to the evolution of behaviour, morphology, and physiology.</p> <p>NOTE: This program has been renamed. It was formerly known as the Major in Biodiversity, Ecology & Evolution (B.Sc.).</p> <p>Program Requirements This program consists of 8.5 required credits.</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Mathematics or Statistics Choose from: MATA30H3 Calculus I for Biological and Physical Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>1.0 Credit of Ecology & Evolution Foundation Courses Choose from: BIOC16H3 Evolutionary Genetics and Genomics BIOC50H3 Macroevolution BIOC59H3 Advanced Population Ecology BIOC61H3 Community Ecology and Environmental Biology</p> <p>1.0 Credit of Other C-level Courses Choose from: BIOC37H3 Plants: Life on the Edge (BIOC38H3) Plants and Society BIOC40H3 Plant Physiology BIOC51H3 Tropical Biodiversity Field Course BIOC52H3 Ecology Field Course BIOC54H3 Animal Behaviour BIOC58H3 Biological Consequences of Global Change BIOC60H3 Winter Ecology BIOC62H3 Role of Zoos in Conservation BIOC63H3 Conservation Biology BIOC65H3 Environmental Toxicology (BIOC67H3) Inter-University Biology Field Course EESC30H3 Microbial Biogeochemistry</p> <p><i>Fourth Year</i></p> <p>0.5 Credit of D-level Courses</p>	<p><i>Supervisor:</i> Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik <i>E-mail:</i> biodiversity@utsc.utoronto.ca</p> <p>This program provides background and training in modern biological approaches to the study of biodiversity, ecology, and evolution. The links between these fields are emphasized, and topics covered range from the structure and function of ecosystems to the evolution of behaviour, morphology, and physiology.</p> <p>NOTE: This program has been renamed. It was formerly known as the Major in Biodiversity, Ecology & Evolution (B.Sc.).</p> <p>Program Requirements This program consists of 8.5 required credits.</p> <p><i>First Year</i></p> <p>1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions</p> <p>1.0 Credit of Introductory Chemistry Courses CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms</p> <p>0.5 Credit in Mathematics or Statistics Choose from: MATA29H3 Calculus I for the Life Sciences STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology</p> <p><i>Second Year</i></p> <p>3.0 Credits of Biology Core Courses BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs BIOB52H3 Ecology and Evolutionary Biology Laboratory</p> <p><i>Third Year</i></p> <p>1.0 Credit of Ecology & Evolution Foundation Courses Choose from: BIOC16H3 Evolutionary Genetics and Genomics BIOC50H3 Macroevolution BIOC59H3 Advanced Population Ecology BIOC61H3 Community Ecology and Environmental Biology</p> <p>1.0 Credit of Other C-level Courses Choose from: BIOC37H3 Plants: Life on the Edge (BIOC38H3) Plants and Society BIOC40H3 Plant Physiology BIOC51H3 Tropical Biodiversity Field Course BIOC52H3 Ecology Field Course BIOC54H3 Animal Behaviour BIOC58H3 Biological Consequences of Global Change BIOC60H3 Winter Ecology BIOC62H3 Role of Zoos in Conservation BIOC63H3 Conservation Biology BIOC65H3 Environmental Toxicology (BIOC67H3) Inter-University Biology Field Course EESC30H3 Environmental Microbiology</p>

Choose from:

[BIOD25H3](#) Genomics
[BIOD26H3](#) Fungal Biology & Pathogenesis
[BIOD33H3](#) Comparative Animal Physiology
[BIOD43H3](#) Animal Movement and Exercise
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology and Herpetology
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD53H3](#) Special Topics in Behavioural Ecology
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes & Consequences of Biodiversity
[BIOD67H3](#) Inter-University Biology Field Course
[EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

Program notes/tables

Fourth Year

0.5 Credit of D-level Courses

Choose from:

[BIOD25H3](#) Genomics
[BIOD26H3](#) Fungal Biology & Pathogenesis
[BIOD33H3](#) Comparative Animal Physiology
[BIOD43H3](#) Animal Movement and Exercise
[BIOD45H3](#) Animal Communication
[BIOD48H3](#) Ornithology
[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD53H3](#) Special Topics in Behavioural Ecology
[BIOD54H3](#) Applied Conservation Biology
[BIOD60H3](#) Spatial Ecology
[BIOD62H3](#) Species and Speciation
[BIOD66H3](#) Causes & Consequences of Biodiversity
[BIOD67H3](#) Inter-University Biology Field Course
[EESD15H3](#) Fundamentals of Site Remediation

Program: SCSPE2540A - Compare

Code	SCSPE2540A	SCSPE2540A
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)	SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>This program requires 13.0 full credits of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.</p> <ol style="list-style-type: none"> 1. Introduction to International Development Studies (2.0 full credits as follows) <p>IDSA01H3 Introduction to International Development Studies MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach] MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach] EESA01H3 Introduction to Environmental Science</p> 2. Core courses in International Development (3.0 full credits as follows) <p>IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective</p> 3. Methods for International Development Studies (1.5 full credits as follows) <p>IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB22H3 Statistics I 0.5 FCE in Qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography HLTC04H3 Critical Qualitative Health Research Methods POLC78H3 Political Analysis I</p> 4. Research in International Development Requirement (0.5 credit): IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy 5. Specialized Courses: Approaches to International Development (6.0 full credits) A minimum of 2.0 full credits must be chosen from two different clusters below for a total of 4.0 full credits. The other 2.0 full credits may be selected from any of the courses listed below, and IDSA02H3/AFSA03H3, IDSC07H3, IDSC10H3, IDSD10H3, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement. <p>Media and Development ANTC53H3 Anthropology of Media and Publics GASC40H3/MDSC40H3 Chinese Media and Politics GASC41H3/MDSC41H3 Media and Popular Culture in East and Southeast Asia IDSB10H3 Knowledge and Communication for Development</p>	<p>Program Requirements</p> <p>This program requires 13.0 full credits of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.</p> <ol style="list-style-type: none"> 1. Introduction to International Development Studies (2.0 full credits as follows) <p>IDSA01H3 Introduction to International Development Studies MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach] MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach] EESA01H3 Introduction to Environmental Science</p> 2. Core courses in International Development (3.0 full credits as follows) <p>IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective</p> 3. Methods for International Development Studies (1.5 full credits as follows) <p>IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB23H3 Introduction to Statistics for the Social Sciences 0.5 FCE in Qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography HLTC04H3 Critical Qualitative Health Research Methods POLC78H3 Political Analysis I</p> 4. Research in International Development Requirement (0.5 credit): IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy 5. Specialized Courses: Approaches to International Development (6.0 full credits) A minimum of 2.0 full credits must be chosen from two different clusters below for a total of 4.0 full credits. The other 2.0 full credits may be selected from any of the courses listed below, and IDSA02H3/AFSA03H3, IDSC07H3, IDSC10H3, IDSD10H3, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement. <p>Media and Development ANTC53H3 Anthropology of Media and Publics GASC40H3/MDSC40H3 Chinese Media and Politics GASC41H3/MDSC41H3 Media and Popular Culture in East Asia IDSB10H3 Knowledge and Communication for Development</p>

[IDSC08H3](#) Media and Development
[MDSB05H3/GASB05H3](#) Media and Globalization
[MDSB61H3](#) Mapping New Media
[SOCC44H3](#) Media and Society
[VPHB50H3](#) Africa Through the Photographic Lens

Culture and Society

[ANTB05H3/AFSB05H3](#) Culture and Society in Africa
[ANTB20H3](#) Culture, Politics and Globalization
[ANTB64H3](#) The Anthropology of Food
[ANTC10H3](#) Anthropological Perspectives on Development
[ANTC34H3](#) The Anthropology of Transnationalism
[ANTC66H3](#) Anthropology of Tourism
[GGRD14H3](#) Social Justice and the City
[HISB51H3/AFSB51H3](#) Twentieth Century Africa
[HISB57H3/GASB57H3](#) Sub-Continental Histories: South Asia in the World
[HISC29H3](#) Global Commodities: Nature, Culture, History
[HISC55H3](#) War and Society in Modern Africa
[IDSD06H3](#) Feminist and Postcolonial Perspectives in Development Studies
[SOCC25H3](#) Ethnicity, Race and Migration
[SOCC29H3](#) Special Topics in Sociology of Family
[SOCC34H3](#) Migrations & Transnationalisms
[SOCC58H3](#) Global Transformations: Politics, Economy & Society

Economics of Development

[ANTC19H3](#) Producing People and Things: Economics and Social Life
[MGEB32H3](#) Economic Aspects of Public Policy
[MGEB60H3](#) Comparative Economic Systems
[MGECC21H3](#) Classics in the History of Economic Thought
[MGECC61H3](#) International Economics: Finance
[MGECC62H3](#) International Economics: Trade Theory
[MGECC81H3](#) Economic Development
[MGECC82H3](#) Development Policy
[MGED63H3](#) Financial Crises: Causes, Consequences and Policy Implications
[IDSC12H3](#) Economics of Small Enterprise and Micro-Credit
[IDSC14H3](#) The Political Economy of Food
[GGRC48H3](#) Geographies of Urban Poverty
[POLC98H3](#) International Political Economy of Finance

Environment and Land Use

[ANTB01H3](#) Political Ecology
[EESB16H3](#) Feeding Humans - the Cost to the Planet
[EESB17H3](#) Hydro Politics and Transboundary Water Resources Management
[GGRB21H3](#) Environments and Environmentalisms
[GGRC10H3](#) Urbanization and Development
[GGRC22H3](#) Political Ecology Theory and Application
[GGRC25H3](#) Land Reform and Development
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[GGRC49H3](#) Land, Development, and Struggle in Latin America
[IDSC02H3](#) Environmental Science and Evidence-Based Policy
[IDSD07H3/AFSD07H3](#) Extractive Industries in Africa

Gender, Health and Development

[ANTC14H3](#) Feminism and Anthropology
[ANTC15H3](#) Genders and Sexualities
[ANTC61H3](#) Medical Anthropology: Illness and Healing in Cultural Perspective
[GGRB28H3](#) Geographies of Disease
[GGRD10H3](#) Health and Sexuality
[HLTC02H3](#) Women and Health: Past and Present
[IDSC11H3](#) Issues in Global and International Health
[POLC94H3](#) Globalization, Gender and Development
[WSTC10H3](#) Women and Development
[WSTC11H3](#) Applied Study in Women and Development

[IDSC08H3](#) Media and Development
[MDSB05H3/GASB05H3](#) Media and Globalization
[MDSB61H3](#) Mapping New Media
[SOCC44H3](#) Media and Society
[VPHB50H3](#) Africa Through the Photographic Lens

Culture and Society

[ANTB05H3/AFSB05H3](#) Culture and Society in Africa
[ANTB20H3](#) Culture, Politics and Globalization
[ANTB64H3](#) The Anthropology of Food
[ANTC10H3](#) Anthropological Perspectives on Development
[ANTC34H3](#) The Anthropology of Transnationalism
[ANTC66H3](#) Anthropology of Tourism
[GGRD14H3](#) Social Justice and the City
[HISB51H3/AFSB51H3](#) Twentieth Century Africa
[HISB57H3/GASB57H3](#) Sub-Continental Histories: South Asia in the World
[HISC29H3](#) Global Commodities: Nature, Culture, History
[HISC55H3](#) War and Society in Modern Africa
[IDSD06H3](#) Feminist and Postcolonial Perspectives in Development Studies
[SOCC25H3](#) Ethnicity, Race and Migration
[SOCC29H3](#) Special Topics in Sociology of Family
[SOCC34H3](#) Migrations & Transnationalisms
[SOCC58H3](#) Global Transformations: Politics, Economy & Society

Economics of Development

[ANTC19H3](#) Producing People and Things: Economics and Social Life
[MGEB32H3](#) Economic Aspects of Public Policy
[MGEB60H3](#) Comparative Economic Systems
[MGECC21H3](#) Classics in the History of Economic Thought
[MGECC61H3](#) International Economics: Finance
[MGECC62H3](#) International Economics: Trade Theory
[MGECC81H3](#) Economic Development
[MGECC82H3](#) Development Policy
[MGED63H3](#) Financial Crises: Causes, Consequences and Policy Implications
[IDSC12H3](#) Economics of Small Enterprise and Micro-Credit
[IDSC14H3](#) The Political Economy of Food
[GGRC48H3](#) Geographies of Urban Poverty
[POLC98H3](#) International Political Economy of Finance

Environment and Land Use

[ANTB01H3](#) Political Ecology
[EESB16H3](#) Feeding Humans - the Cost to the Planet
[EESB17H3](#) Hydro Politics and Transboundary Water Resources Management
[GGRB21H3](#) Environments and Environmentalisms
[GGRC10H3](#) Urbanization and Development
[GGRC22H3](#) Political Ecology Theory and Application
[GGRC25H3](#) Land Reform and Development
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[GGRC49H3](#) Land, Development, and Struggle in Latin America
[IDSC02H3](#) Environmental Science and Evidence-Based Policy
[IDSD07H3/AFSD07H3](#) Extractive Industries in Africa

Gender, Health and Development

[ANTC14H3](#) Feminism and Anthropology
[ANTC15H3](#) Genders and Sexualities
[ANTC61H3](#) Medical Anthropology: Illness and Healing in Cultural Perspective
[GGRB28H3](#) Geographies of Disease
[GGRD10H3](#) Health and Sexuality
[HLTC02H3](#) Women and Health: Past and Present
[IDSC11H3](#) Issues in Global and International Health
[POLC94H3](#) Globalization, Gender and Development
[WSTC10H3](#) Women and Development
[WSTC11H3](#) Applied Study in Women and Development

Politics and Policy

[IDSC11H3](#) Issues in Global and International Health
[IDSC17H3](#) Development, Citizen Action and Social Change in the Global South
[IDSC18H3](#) New Paradigms in Development: The Role of Emerging Powers
[IDSD19H3](#) The Role of Researcher-Practitioner Engagement in Development
[POLB80H3](#) Introduction to International Relations I
[POLB81H3](#) Introduction to International Relations II
[POLC09H3](#) International Security: Conflict, Crisis and War
[POLC16H3](#) Chinese Politics
[POLC37H3](#) Global Justice
[POLC80H3](#) International Relations of Africa
[POLC87H3](#) International Cooperation and Institutions
[POLC88H3](#) The New International Agenda
[POLC90H3](#) Development Studies: Political and Historical Perspectives
[POLC91H3](#) Latin America: Dictatorship and Democracy
[POLC96H3](#) State Formation and Authoritarianism in the Middle East
[POLC97H3](#) Protest Politics in the Middle East
[POLC99H3](#) Latin America: Politics of the Dispossessed
[POLD09H3](#) International Relations of Ethnic Conflict
[POLD87H3](#) Rational Choice and International Cooperation
[POLD90H3](#) Public Policy and Human Development in the Global South
[POLD92H3](#) Survival and Demise of Dictatorships
[POLD94H3](#) Selected Topics on Developing Areas

Politics and Policy

[IDSC11H3](#) Issues in Global and International Health
[IDSC17H3](#) Development, Citizen Action and Social Change in the Global South
[IDSC18H3](#) New Paradigms in Development: The Role of Emerging Powers
[IDSD19H3](#) The Role of Researcher-Practitioner Engagement in Development
[POLB80H3](#) Introduction to International Relations I
[POLB81H3](#) Introduction to International Relations II
[POLC09H3](#) International Security: Conflict, Crisis and War
[POLC16H3](#) Chinese Politics
[POLC37H3](#) Global Justice
[POLC80H3](#) International Relations of Africa
[POLC87H3](#) International Cooperation and Institutions
[POLC88H3](#) The New International Agenda
[POLC90H3](#) Development Studies: Political and Historical Perspectives
[POLC91H3](#) Latin America: Dictatorship and Democracy
[POLC96H3](#) State Formation and Authoritarianism in the Middle East
[POLC97H3](#) Protest Politics in the Middle East
[POLC99H3](#) Latin America: Politics of the Dispossessed
[POLD09H3](#) International Relations of Ethnic Conflict
[POLD87H3](#) Rational Choice and International Cooperation
[POLD90H3](#) Public Policy and Human Development in the Global South
[POLD92H3](#) Survival and Demise of Dictatorships
[POLD94H3](#) Selected Topics on Developing Areas

Program notes/tables

Program: SCMIN1016 - Compare

Code	SCMIN1016	SCMIN1016
Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	Sociology	Sociology
Title	MINOR PROGRAM IN MIGRATION AND ETHNIC DIVERSITY (ARTS)	MINOR PROGRAM IN MIGRATION AND ETHNIC DIVERSITY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Minor program in Migration and Ethnic Diversity offers students an understanding of the causes and consequences of international migration in sending, transit and receiving societies. Issues of ethnic diversity, pluralism, and social equity are highlighted. The Minor is interdisciplinary in content and method; through data-driven coursework and experiential learning, students will develop a suite of transferable skills in research design, quantitative and qualitative data analysis, and written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis, and knowledge of migration and ethnic diversity grounded in material conditions.</p> <p><i>Program Advisor:</i> Janet Roopnarinesingh janetr@utsc.utoronto.ca</p>	<p>The Minor program in Migration and Ethnic Diversity offers students an understanding of the causes and consequences of international migration in sending, transit and receiving societies. Issues of ethnic diversity, pluralism, and social equity are highlighted. The Minor is interdisciplinary in content and method; through data-driven coursework and experiential learning, students will develop a suite of transferable skills in research design, quantitative and qualitative data analysis, and written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis, and knowledge of migration and ethnic diversity grounded in material conditions.</p> <p><i>Program Advisor:</i> Janet Roopnarinesingh janetr@utsc.utoronto.ca</p>
Program Restrictions	Students in the Minor in Migration and Ethnic Diversity may count only 1.0 credit in Sociology courses, from the following list, towards completion of the program: SOCA01H3 , SOCA02H3 , SOCB05H3 .	Students in the Minor in Migration and Ethnic Diversity may count only 1.0 credit in Sociology courses, from the following list, towards completion of the program: SOCA01H3 , SOCA02H3 , SOCB05H3 .
Program Requirements	<p>The program in Migration and Ethnic Diversity requires completion of 4.0 full credits as follows:</p> <p>1. 1.0 credit from the following: ANTA02H3 Introduction to Anthropology: Society, Culture and Language GASA01H3/HISA06H3 Introducing Global Asia and its Histories GASA02H3 Introduction to Global Asia Studies GGRA02H3 The Geography of Global Processes HISA04H3 Themes in World History I HISA05H3 Themes in World History II HLTA02H3 Foundations in Health Studies I HLTA03H3 Foundations in Health Studies II POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II</p> <p>2. 0.5 credit as follows: SOCB60H3 Issues in Migration & Ethnic Diversity</p> <p>3. 0.5 credit from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies ANTB20H3 Culture, Politics and Globalization GGRB02H3 The Logic of Geographical Thought HISB03H3 Critical Writing and Research for Historians HLTB15H3 Introduction to Health Research Methodology SOCB05H3 Logic of Social Inquiry</p> <p>4. 0.5 credit from the following: SOCB53H3 Race and Ethnicity GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience ANTB16H3 Canadian Cultural Identities GASB53H3 Mughals and the World, 1500-1858 AD</p> <p>5. 1.0 credit from the following: ANTC34H3 The Anthropology of Transnationalism CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough GASC59H3 Being Tamil: Race, Culture, Nation GASD01H3 Senior Seminar: Topics in Global Asian Cultures GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire</p>	<p>The program in Migration and Ethnic Diversity requires completion of 4.0 full credits as follows:</p> <p>1. 1.0 credit from the following: ANTA02H3 Introduction to Anthropology: Society, Culture and Language GASA01H3/HISA06H3 Introducing Global Asia and its Histories GASA02H3 Introduction to Global Asia Studies GGRA02H3 The Geography of Global Processes HISA04H3 Themes in World History I HISA05H3 Themes in World History II HLTA02H3 Foundations in Health Studies I HLTA03H3 Foundations in Health Studies II POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II</p> <p>2. 0.5 credit as follows: SOCB60H3 Issues in Migration & Ethnic Diversity</p> <p>3. 0.5 credit from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies ANTB20H3 Culture, Politics and Globalization GGRB02H3 The Logic of Geographical Thought HISB03H3 Critical Writing and Research for Historians HLTB15H3 Introduction to Health Research Methodology SOCB05H3 Logic of Social Inquiry</p> <p>4. 0.5 credit from the following: SOCB53H3 Race and Ethnicity GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience ANTB16H3 Canadian Cultural Identities GASB53H3 Mughals and the World, 1500-1858 AD</p> <p>5. 1.0 credit from the following: ANTC34H3 The Anthropology of Transnationalism CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough GASC59H3 The Making of Tamil Worlds GASD01H3 Senior Seminar: Topics in Global Asian Migrations GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire</p>

[GGRC56H3](#) Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities

[GGRD19H3](#) Spaces of Multiraciality: Critical Mixed Race Theory

[HISB14H3](#) Edible History: History of Global Foodways

[HISC11H3](#) Multiculturalism and Cultural Identities in the Greek and Roman Worlds

[HISC36H3](#) People in Motion: Immigrants and Migrants in U.S History

[HISD31H3](#) Thinking of Diversity: Perspectives on American Pluralisms

[HISD35H3](#) The Politics of American Immigration, 1865-present

[HLTD06H3](#) Special Topics in Migration and Public Health

[POLD52H3](#) Immigration and Canadian Political Development

[SOCC25H3](#) Ethnicity, Race and Migration

[SOCC34H3](#) Migrations & Transnationalisms

[SOCC52H3](#) International Migration & Immigrant Incorporation

[SOCC55H3](#) Special Topics in Race and Ethnicity

6. 0.5 credit from the following:

[SOCD15H3](#) Advanced Seminar in Migration and Ethnicity

[SOCD21H3](#) Immigrant Scarborough

[GGRC56H3](#) Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities

[GGRD19H3](#) Spaces of Multiraciality: Critical Mixed Race Theory

[HISB14H3](#) Edible History: History of Global Foodways

[HISC11H3](#) Multiculturalism and Cultural Identities in the Greek and Roman Worlds

[HISC36H3](#) People in Motion: Immigrants and Migrants in U.S History

[HISD31H3](#) Thinking of Diversity: Perspectives on American Pluralisms

[HISD35H3](#) The Politics of American Immigration, 1865-present

[HLTD06H3](#) Special Topics in Migration and Public Health

[POLD52H3](#) Immigration and Canadian Political Development

[SOCC25H3](#) Ethnicity, Race and Migration

[SOCC34H3](#) Migrations & Transnationalisms

[SOCC52H3](#) International Migration & Immigrant Incorporation

[SOCC55H3](#) Special Topics in Race and Ethnicity

6. 0.5 credit from the following:

[SOCD15H3](#) Advanced Seminar in Migration and Ethnicity

[SOCD21H3](#) Immigrant Scarborough

Program notes/tables

Program: SCMAJ2085B - Compare

Code	SCMAJ2085B	SCMAJ2085B
Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	Health Studies	Health Studies
Title	MAJOR PROGRAM IN HEALTH STUDIES - Population Health (SCIENCE)	MAJOR PROGRAM IN HEALTH STUDIES - Population Health (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

This program requires the completion of 8.0 credits, as described below.

- 1. 1.0 credit at A-level:**
[HLTA02H3](#) Foundations of Health Studies I
[HLTA03H3](#) Foundations of Health Studies II
- 2. 0.5 credit in Statistics:**
[STAB22H3](#) Statistics I
- 3. 3.0 credits at B-level from the following:**
[HLTB15H3](#) Introduction to Health Research Methodology
[HLTB17H3](#) Conceptual Models of Health
[HLTB20H3](#) Contemporary Human Evolution and Variation
[HLTB21H3](#) Infectious Diseases
[HLTB22H3](#) Biological Determinants of Health
[PHLB09H3](#) Biomedical Ethics
[STAB27H3](#) Statistics II
- 4. 2.0 credits at C-level from the following:**
[ANTC40H3](#) Methods and Analysis in Anthropological Demography
[ANTC67H3](#) Foundations in Epidemiology
[ANTC68H3](#) Deconstructing Epidemics
[HLTC18H3](#) Determinants of Health, Health Disparities
[HLTC21H3](#) Patterns of Health, Disease, and Injuries
[STAC32H3](#) Applications of Statistical Methods
[STAC50H3](#) Data Collection
- 5. 1.0 credit from the following:**
[GGRB28H3](#) Geographies of Disease
[HLTB16H3](#) Introduction to Public Health
[HLTC04H3](#) Critical Qualitative Health Research Methods
[HLTC22H3](#) Health, Aging and the Life Cycle
[HLTC23H3](#) Issues in Child Health and Development
[HLTC24H3](#) Environment and Health
- 6. 0.5 credit at the D-level from the following:**
[ANTD16H3](#) Biomedical Anthropology
[HLTD01H3](#) Directed Readings in Health Studies
[HLTD02H3](#) Health Research Seminar
[HLTD04H3](#) Special Topics in Health
[HLTD05H3](#) Directed Research on Health Services and Institutions
[HLTD11H3](#) Special Topics in Health
[HLTD21H3](#) Special Topics in Health
[HLTD22H3](#) Special Topics in Health
*Note: Special Topics courses - topics will vary from instructor to instructor, and will be posted on the Health Studies website.

This program requires the completion of 8.0 credits, as described below.

- CORE (5.5 credits)**
- 1. 1.5 credit at A-level:**
[BIOA11H3](#) Introduction to the Biology of Humans or [BIOA01H3](#) and [BIOA02H3](#)¹
[HLTA02H3](#) Foundations of Health Studies I
[HLTA03H3](#) Foundations of Health Studies II
Note: Students completing [BIOA01H3](#) and [BIOA02H3](#) instead of [BIOA11H3](#) will receive only 0.5 credit towards the program.
 - 2. 2.5 credits at B-level:**
[HLTB11H3](#) Basic Human Nutrition
[HLTB16H3](#) Introduction to Public Health
[HLTB22H3](#) Biological Determinants of Health
[PHLB09H3](#) Biomedical Ethics
[STAB22H3](#) Statistics I
 - 3. 1.0 credit:**
[HLTB15H3](#) Introduction to Health Research Methodology
[ANTC67H3](#) Foundations in Epidemiology
 - 4. 0.5 credit at the D-level in HLT courses**
- OPTIONS (2.5 credits)**
- 5. 0.5 credit at the B-level from the following:**
[HLTB41H3](#) Introduction to the Social Determinants of Health
[HLTB42H3](#) Perspectives of Culture, Illness and Healing
[HLTB50H3](#) Introduction to Health Humanities
 - 6. 0.5 credit at the B-level from the following:**
[GGRB28H3](#) Geographies of Disease
[HLTB17H3](#) Conceptual Models of Health
[HLTB20H3](#) Contemporary Human Evolution and Variation
[HLTB21H3](#) Infectious Diseases
[HLTB41H3](#) Introduction to the Social Determinants of Health (if not used towards requirement 5)
[HLTB50H3](#) Introduction to Health Humanities (if not used towards requirement 5)
[STAB27H3](#) Statistics II
 - 7. 1.5 credits at the C-level from the following:**
[ANTC68H3](#) Deconstructing Epidemics
[HLTC04H3](#) Critical Qualitative Health Research Methods
[HLTC18H3](#) Determinants of Health, and Health Disparities
[HLTC21H3](#) Patterns of Health, Disease and Injuries
[HLTC22H3](#) Health, Aging and the Life Cycle
[HLTC23H3](#) Issues in Child Health and Development
[HLTC24H3](#) Environment and Health

Program notes/tables

Program: SCMAJ2085 - Compare

Code	SCMAJ2085	SCMAJ2085
Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	Health Studies	Health Studies
Title	MAJOR PROGRAM IN HEALTH STUDIES - Health Policy (ARTS)	MAJOR PROGRAM IN HEALTH STUDIES - Health Policy (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>This program requires the completion of 8.0 credits, as described below.</p> <p>1. 1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>2. 0.5 credit in Statistics STAB22H3 Statistics I</p> <p>3. 3.0 credits at B-level from the following: 3.0 credits from the following: HLTB05H3 Introduction to Sport Management, Health and Environment HLTB15H3 Introduction to Health Research Methodology HLTB16H3 Introduction to Public Health HLTB17H3 Conceptual Models of Health HLTB40H3 Health Policy and Health Systems HLTB50H3 Introduction to Health Humanities IDSB04H3 Introduction to International/Global Health* PHLB09H3 Biomedical Ethics *NOTE: IDSB04H3 has prerequisites that are not part of this program.</p> <p>4. 2.0 credits at C-level from the following: HLTC02H3 Women and Health: Past and Present HLTC05H3 Social Determinants of Health HLTC18H3 Determinants of Health, and Health Disparities HLTC40H3 Introduction to Health Economics or MGEC34H3/(ECMC34H3) Economics of Health Care) HLTC42H3 Emerging Health Issues and Policy Needs HLTC43H3 Politics of Canadian Health Policy HLTC50H3 The Human-Animal Interface IDSC11H3 Issues in Global and International Health* *NOTE: IDSC11H3 has prerequisites that are not part of this program.</p> <p>5. 1.0 additional credit at the C-level from the following: HLTC04H3 Critical Qualitative Health Research Methods HLTC22H3 Health, Aging and the Life Cycle HLTC24H3 Environment and Health HLTC44H3 Comparative Health Policy Systems</p> <p>6. 0.5 credit at the D-level from the following: HLTD01H3 Directed Readings in Health Studies HLTD02H3 Health Research Seminar HLTD04H3 Special Topics in Health HLTD05H3 Directed Research on Health Services and Institutions HLTD06H3 Special Topics in Migration and Public Health HLTD11H3 Special Topics in Health** HLTD21H3 Special Topics in Health** HLTD22H3 Special Topics in Health** HLTD50H3 Special Topics in Health Humanities **NOTE: Special Topics courses - topics will vary from instructor to instructor and will be posted on the Health Studies website.</p>	<p>This program requires the completion of 8.0 credits, as described below.</p> <p>CORE (5.5 Credits)</p> <p>1. 1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>2. 2.5 credits as follows: HLTB16H3 Introduction to Public Health HLTB41H3 Introduction to the Social Determinants of Health HLTB50H3 Introduction to Health Humanities PHLB09H3 Biomedical Ethics STAB22H3 Statistics I</p> <p>3. 1.5 credits as follows: HLTB15H3 Introduction to Health Research Methodology HLTB40H3 Health Policy and Health Systems ANTC67H3 Foundations in Epidemiology</p> <p>4. 0.5 credit at the D-level in HLT courses</p> <p>OPTIONS (2.5 credits)</p> <p>5. 0.5 credit at the B-level from the following: HLTB11H3 Basic Human Nutrition HLTB20H3 Contemporary Human Evolution and Variation</p> <p>6. 0.5 credit at the B-level from the following: GGRB28H3 Geographies of Disease HLTB11H3 Basic Human Nutrition (if not used towards requirement 5) HLTB17H3 Conceptual Models of Health HLTB20H3 Contemporary Human Evolution and Variation (if not used towards requirement 5) HLTB42H3 Perspectives of Culture, Illness and Healing IDSB04H3 Introduction to International/Global Health* *Note: IDSB04H3 has prerequisites that are not part of this program.</p> <p>7. 1.5 credits at the C-level from the following: ANTC24H3 Culture, Mental Illness, and Psychiatry ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective HLTC02H3 Gender and Health HLTC04H3 Critical Qualitative Health Research Methods HLTC05H3 Society, Health and Illness HLTC18H3 Determinants of Health, and Health Disparities HLTC22H3 Health, Aging and the Life Cycle HLTC23H3 Issues in Child Health and Development HLTC42H3 Emerging Health Issues and Policy Needs HLTC43H3 Politics of Canadian Health Policy HLTC44H3 Comparative Health Policy Systems HLTC50H3 The Human-Animal Interface IDSC11H3 Issues in Global and International Health* *Note: IDSC11H3 has prerequisites that are not part of this program.</p>

Program notes/tables

Program: SCSPE0506 - Compare

Code	SCSPE0506	SCSPE0506
Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	Linguistics	Linguistics
Title	SPECIALIST PROGRAM IN LINGUISTICS (ARTS)	SPECIALIST PROGRAM IN LINGUISTICS (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca	For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca
Program Requirements	Students must complete 12.0 credits, including 4.0 credits at the C- and D-level of which 1.0 credit must be at the D-level as follows: 1. All of the following: LINA01H3 Introduction to Linguistics LINA02H3 Applications of Linguistics LINB04H3 Phonology I LINB06H3 Syntax I LINB09H3 Phonetics: The Study of Speech Sounds LINB10H3 Morphology LINC02H3 Phonology II LINC11H3 Syntax II LINC12H3 Semantics: The Study of Meaning 2. 4.5 credits from the following, including at least 1.5 credits from Group A and at least 1.5 credits from Group B: Group A LINB13H3 Language Diversity and Language Universals LINB18H3 The Structure of English Words LINB20H3 Sociolinguistics LINB60H3 Structure of Chinese LINB62H3 Structure of American Sign Language LINC28H3 Language and Gender LINC47H3 Pidgin and Creole Languages LINC61H3 Structure of a Language LIND09H3 Phonetic Analysis LIND29H3 Linguistic Research Methodologies Group B LINB29H3 Quantitative Methods in Linguistics PLIC24H3 First Language Acquisition PLIC25H3 Second Language Acquisition PLIC55H3 Psycholinguistics PLID34H3 The Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID50H3 Speech Perception PLID55H3 Disorders of Speech and Language 3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 or LINC61H3 ; FRE or LGG courses or language courses at another campus. 4. A further 2.0 credits in any LIN, PLI, JAL or JLP courses.	Students must complete 12.0 credits, including 4.0 credits at the C- and D-level of which 1.0 credit must be at the D-level as follows: 1. All of the following: LINA01H3 Introduction to Linguistics LINA02H3 Applications of Linguistics LINB04H3 Phonology I LINB06H3 Syntax I LINB09H3 Phonetics: The Study of Speech Sounds LINB10H3 Morphology LINC02H3 Phonology II LINC11H3 Syntax II LINC12H3 Semantics: The Study of Meaning 2. 4.5 credits from the following, including at least 1.5 credits from Group A and at least 1.5 credits from Group B: Group A LINB13H3 Language Diversity and Language Universals LINB18H3 English Grammar LINB20H3 Sociolinguistics LINB60H3 Structure of Chinese LINB62H3 Structure of American Sign Language LINC28H3 Language and Gender LINC47H3 Pidgin and Creole Languages LINC61H3 Structure of a Language LIND09H3 Phonetic Analysis LIND29H3 Linguistic Research Methodologies Group B LINB29H3 Quantitative Methods in Linguistics PLIC24H3 First Language Acquisition PLIC25H3 Second Language Acquisition PLIC55H3 Psycholinguistics PLID34H3 The Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID50H3 Speech Perception PLID55H3 Disorders of Speech and Language 3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 or LINC61H3 ; FRE or LGG courses or language courses at another campus. 4. A further 2.0 credits in any LIN, PLI, JAL or JLP courses.

Program notes/tables

Program: SCMIN1423 - Compare

Code	SCMIN1423	SCMIN1423
Owning Organizations	AST,PHSSC	AST,PHSSC
Sections	Astronomy	Astronomy
Title	MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)	MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Supervisor:</i> J. Lowman (416-208-4880) <i>Email:</i> lowman@utsc.utoronto.ca	

Program Requirements:

Students must complete 5.0 full credits as follows:

- [ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
- [PHYA10H3](#) Introduction to Physics IA
- [PHYA21H3](#) Introduction to Physics IIA
- [MATA30H3](#) Calculus I for Biological and Physical Sciences
- [MATA23H3](#) Linear Algebra I
- [MATA36H3](#) Calculus II for Physical Sciences
- or
- [MATA37H3](#) Calculus II for Mathematical Sciences]
- [ASTC25H3](#) Astrophysics of Planetary Systems
- [MATB41H3](#) Techniques of the Calculus of Several Variables I
- [MATB42H3](#) Techniques of the Calculus of Several Variables II
- [PHYD01H3](#) Research Project in Physics and Astrophysics
- or
- [PHYD72H3](#) Supervised Reading in Physics and Astrophysics
- or
- any other AST C- or D-level course]

Program Requirements:

Students must complete 5.0 full credits as follows:

- [ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
- [PHYA10H3](#) Introduction to Physics IA
- [PHYA21H3](#) Introduction to Physics IIA
- [MATA30H3](#) Calculus I for Physical Sciences
- [MATA23H3](#) Linear Algebra I
- [MATA36H3](#) Calculus II for Physical Sciences
- or
- [MATA37H3](#) Calculus II for Mathematical Sciences]
- [ASTC25H3](#) Astrophysics of Planetary Systems
- [MATB41H3](#) Techniques of the Calculus of Several Variables I
- [MATB42H3](#) Techniques of the Calculus of Several Variables II
- [PHYD01H3](#) Research Project in Physics and Astrophysics
- or
- [PHYD72H3](#) Supervised Reading in Physics and Astrophysics
- or
- any other AST C- or D-level course]

Program notes/tables

Program: SCSPE1995 - Compare

Code	SCSPE1995	SCSPE1995
Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	Chemistry	Chemistry
Title	SPECIALIST PROGRAM IN BIOLOGICAL CHEMISTRY (SCIENCE)	SPECIALIST PROGRAM IN BIOLOGICAL CHEMISTRY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> W. Restivo (416-287-7222) <i>Email:</i> restivo@utsc.utoronto.ca</p> <p>This program is intended for students who want to specialize in Chemistry, but who are also interested in the chemistry of living systems.</p> <p>Admission to Biological Chemistry Specialist</p> <p>Students may apply to this program after completing at least 4.0 FCE including: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, MATA30H3 and PHYA10H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar's website for information on program (Subject POST) selection at www.utsc.utoronto.ca/subjectpost.</p> <p>Program Requirements</p> <p>The program requires the completion of the following 15.0 full credits:</p> <p>First Year:</p> <p>BIOA01H3 Life On Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences] PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA</p> <p>Note: PSCB57H3 requires either MATA36H3 or MATA37H3 as a prerequisite. MATA36H3 is strongly recommended over MATA35H3 in order that future course selection is not compromised.</p> <p>Second Year:</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspect of Cellular and Genetic Processes BIOB12H3 Laboratory for Cell and Molecular Biology CHMB31H3 Introduction to Inorganic Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II</p> <p>Second or Third Year:</p> <p>CHMB16H3 Techniques in Analytical Chemistry CHMB21H3 Chemical Structure and Spectroscopy CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice and 0.5 full credit from the following: MATA23H3 Linear Algebra I PSCB57H3 Introduction to Scientific Computing STAB22H3 Statistics I</p> <p>Third Year:</p> <p>BIOC12H3 Biochemistry I: Proteins and Enzymes BIOC13H3 Biochemistry II: Bioenergetics and Metabolism BIOC23H3 Practical Approaches to Biochemistry CHMC47H3 Bio-Organic Chemistry</p> <p>Third or Fourth Year:</p> <p>CHMC11H3 Principles of Analytical Instrumentation CHMC31Y3 Intermediate Inorganic Chemistry [CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year:</p> <p>CHMD79H3 Topics in Biological Chemistry 1.5 full credits in D-level or 400-level CHM courses including one of the</p>	<p><i>Supervisor:</i> W. Restivo (416-287-7222) <i>Email:</i> restivo@utsc.utoronto.ca</p> <p>This program is intended for students who want to specialize in Chemistry, but who are also interested in the chemistry of living systems.</p> <p>Admission to Biological Chemistry Specialist</p> <p>Students may apply to this program after completing at least 4.0 FCE including: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, MATA30H3 and PHYA10H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar's website for information on program (Subject POST) selection at www.utsc.utoronto.ca/subjectpost.</p> <p>Program Requirements</p> <p>The program requires the completion of the following 15.0 full credits:</p> <p>First Year:</p> <p>BIOA01H3 Life On Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences] PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA</p> <p>Second Year:</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspect of Cellular and Genetic Processes BIOB12H3 Laboratory for Cell and Molecular Biology CHMB31H3 Introduction to Inorganic Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II</p> <p>Second or Third Year:</p> <p>CHMB16H3 Techniques in Analytical Chemistry CHMB21H3 Chemical Structure and Spectroscopy CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice STAB22H3 Statistics I</p> <p>Third Year:</p> <p>BIOC12H3 Biochemistry I: Proteins and Enzymes BIOC13H3 Biochemistry II: Bioenergetics and Metabolism BIOC23H3 Practical Approaches to Biochemistry CHMC47H3 Bio-Organic Chemistry</p> <p>Third or Fourth Year:</p> <p>CHMC11H3 Principles of Analytical Instrumentation CHMC31Y3 Intermediate Inorganic Chemistry [CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year:</p> <p>CHMD79H3 Topics in Biological Chemistry 1.5 full credits in D-level or 400-level CHM courses including one of the following courses: CHMD90Y3 Directed Research CHMD91H3 Directed Research CHMD92H3 Advanced Chemistry Laboratory Course and at least 0.5 full credit from the following: CHMD69H3 Bioinorganic Chemistry CHMD71H3 Pharmaceutical Chemistry</p>

following courses:

[CHMD90Y3](#) Directed Research

[CHMD91H3](#) Directed Research

[CHMD92H3](#) Advanced Chemistry Laboratory Course

and at least 0.5 full credit from the following:

[CHMD69H3](#) Bioinorganic Chemistry

[CHMD71H3](#) Pharmaceutical Chemistry

Program notes/tables

Program: SCSPE1376 - Compare

Code	SCSPE1376	SCSPE1376
Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	Chemistry	Chemistry
Title	SPECIALIST PROGRAM IN CHEMISTRY (SCIENCE)	SPECIALIST PROGRAM IN CHEMISTRY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor: Andre Simpson (416-287-7547) Email: andre.simpson@utoronto.ca</i></p> <p>This Program is meant for students who are interested in obtaining a strong background in all aspects of modern chemistry.</p> <p>Admission to Chemistry Specialist Students may apply to this program after completing at least 4.0 FCE, including CHMA10H3, CHMA11H3, PHYA10H3, PHYA21H3, and 1.0 FCE in either MATA23H3, MATA30H3 or MATA36H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar's website for information on program (Subject POST) selection at www.utsc.utoronto.ca/subjectpost.</p> <p>Program Requirements The Program requires completion of 14.0 full credits as follows:</p> <p>First Year: CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA23H3 Linear Algebra I MATA30H3 Calculus I for Biological and Physical Sciences MATA36H3 Calculus II for Physical Sciences PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA STAB22H3 Statistics I</p> <p>Second Year: CHMB16H3 Techniques in Analytical Chemistry CHMB21H3 Chemical Structure and Spectroscopy CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice CHMB31H3 Introduction to Inorganic Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II CHMB62H3 Introduction to Biochemistry MATB41H3 Techniques of Calculus of Several Variables I</p> <p>Third Year: CHMC11H3 Principles of Analytical Instrumentation CHMC16H3 Analytical Instrumentation [CHMC20H3 Intermediate Physical Chemistry or CHMC21H3 Topics in Biophysical Chemistry] CHMC31Y3 Intermediate Inorganic Chemistry [CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year: PSCD02H3 Current Questions in Mathematics and Science and 0.5 full credit in any C-level or 300-level CHM course not already taken and 2.0 full credits in any D-level or 400-level CHM course including one of the following courses: CHMD90Y3 Directed Research CHMD91H3 Directed Research CHMD92H3 Advanced Chemistry Laboratory Course</p>	<p><i>Supervisor: Andre Simpson (416-287-7547) Email: andre.simpson@utoronto.ca</i></p> <p>This Program is meant for students who are interested in obtaining a strong background in all aspects of modern chemistry.</p> <p>Admission to Chemistry Specialist Students may apply to this program after completing at least 4.0 FCE, including CHMA10H3, CHMA11H3, PHYA10H3, PHYA21H3, and 1.0 FCE in either MATA23H3, MATA30H3 or MATA36H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar's website for information on program (Subject POST) selection at www.utsc.utoronto.ca/subjectpost.</p> <p>Program Requirements The Program requires completion of 14.0 full credits as follows:</p> <p>First Year: CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA23H3 Linear Algebra I MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA STAB22H3 Statistics I</p> <p>Second Year: CHMB16H3 Techniques in Analytical Chemistry CHMB21H3 Chemical Structure and Spectroscopy CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice CHMB31H3 Introduction to Inorganic Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II CHMB62H3 Introduction to Biochemistry MATB41H3 Techniques of Calculus of Several Variables I</p> <p>Third Year: CHMC11H3 Principles of Analytical Instrumentation CHMC16H3 Analytical Instrumentation [CHMC20H3 Intermediate Physical Chemistry or CHMC21H3 Topics in Biophysical Chemistry] CHMC31Y3 Intermediate Inorganic Chemistry [CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year: PSCD02H3 Current Questions in Mathematics and Science and 0.5 full credit in any C-level or 300-level CHM course not already taken and 2.0 full credits in any D-level or 400-level CHM course including one of the following courses: CHMD90Y3 Directed Research CHMD91H3 Directed Research CHMD92H3 Advanced Chemistry Laboratory Course</p>

Program notes/tables

Program: SCMAJ1762 - Compare

Code	SCMAJ1762	SCMAJ1762
Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	Chemistry	Chemistry
Title	MAJOR PROGRAM IN BIOCHEMISTRY (SCIENCE)	MAJOR PROGRAM IN BIOCHEMISTRY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> Alen Hadzovic (416-287-5602) Email: alen.hadzovic@utoronto.ca</p> <p>This Program places a greater emphasis on the biological aspects of chemistry than does the general Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.</p> <p>Program Requirements Students should complete the following 8.5 full credits:</p> <p>First Year: BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences]</p> <p>Second and Later Years: BIOB10H3 Cell Biology BIOB11H3 Molecular Aspect of Cellular and Genetic Processes BIOB12H3 Cell & Molecular Biology Laboratory BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics & Metabolism BIOC23H3 Practical Approaches to Biochemistry CHMB16H3 Techniques in Analytical Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II CHMC47H3 Bio-Organic Chemistry</p> <p>And 0.5 credit from the following: CHMB20H3* Chemical Thermodynamics and Elementary Kinetics CHMB23H3* Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice CHMB31H3 Introduction to Inorganic Chemistry CHMB55H3 Environmental Chemistry CHMC11H3 Principles of Analytical Instrumentation CHMC41H3 Organic Reaction Mechanisms CHMC42H3 Organic Synthesis</p> <p>* If CHMB20H3 or CHMB23H3 is selected, PHYA10H3 is required.</p>	<p><i>Supervisor:</i> Alen Hadzovic (416-287-5602) Email: alen.hadzovic@utoronto.ca</p> <p>This Program places a greater emphasis on the biological aspects of chemistry than does the general Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.</p> <p>Program Requirements Students should complete the following 8.5 full credits:</p> <p>First Year: BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences]</p> <p>Second and Later Years: BIOB10H3 Cell Biology BIOB11H3 Molecular Aspect of Cellular and Genetic Processes BIOB12H3 Cell & Molecular Biology Laboratory BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics & Metabolism BIOC23H3 Practical Approaches to Biochemistry CHMB16H3 Techniques in Analytical Chemistry CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II CHMC47H3 Bio-Organic Chemistry</p> <p>And 0.5 credit from the following: CHMB20H3* Chemical Thermodynamics and Elementary Kinetics CHMB23H3* Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice CHMB31H3 Introduction to Inorganic Chemistry CHMB55H3 Environmental Chemistry CHMC11H3 Principles of Analytical Instrumentation CHMC41H3 Organic Reaction Mechanisms CHMC42H3 Organic Synthesis</p> <p>* If CHMB20H3 or CHMB23H3 is selected, PHYA10H3 is required.</p> <p>Note, however, that this program cannot be combined with the Major Program in Chemistry. When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements)</p>

Program notes/tables

Program: SCMAJ1376 - Compare

Code	SCMAJ1376	SCMAJ1376
Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	Chemistry	Chemistry
Title	MAJOR PROGRAM IN CHEMISTRY (SCIENCE)	MAJOR PROGRAM IN CHEMISTRY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> S. Mikhaylichenko (416-287-7207) <i>Email:</i> mikhay@utsc.utoronto.ca</p> <p>This Program offers the possibility of obtaining an introduction to all of the sub-disciplines of Chemistry.</p>	<p><i>Supervisor:</i> S. Mikhaylichenko (416-287-7207) <i>Email:</i> mikhay@utsc.utoronto.ca</p> <p>This Program offers the possibility of obtaining an introduction to all of the sub-disciplines of Chemistry.</p>
	Program Requirements	Program Requirements
	Students should complete the following 8.5 full credits:	Students should complete the following 8.5 full credits:
	First Year:	First Year:
	CHMA10H3 Introductory Chemistry I: Structure and Bonding	CHMA10H3 Introductory Chemistry I: Structure and Bonding
	CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms	CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
	MATA30H3 Calculus I for Biological and Physical Sciences	MATA30H3 Calculus I for Physical Sciences
	MATA36H3 Calculus II for Physical Sciences	MATA36H3 Calculus II for Physical Sciences
	PHYA10H3 Introduction to Physics IA	PHYA10H3 Introduction to Physics IA
	PHYA21H3 Introduction to Physics IIA	PHYA21H3 Introduction to Physics IIA
	Second and Later Years:	Second and Later Years:
	CHMB16H3 Techniques in Analytical Chemistry	CHMB16H3 Techniques in Analytical Chemistry
	CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice	CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
	CHMB31H3 Introduction to Inorganic Chemistry	CHMB31H3 Introduction to Inorganic Chemistry
	CHMB41H3 Organic Chemistry I	CHMB41H3 Organic Chemistry I
	CHMB42H3 Organic Chemistry II	CHMB42H3 Organic Chemistry II
	CHMB62H3 Introduction to Biochemistry	CHMB62H3 Introduction to Biochemistry
	and	and
	2.5 full course credits in CHM of which at least 2.0 must be at the C- or D-level and 0.5 of which must be at the D-level. One of these C- or D-level half credits must include a laboratory component.**	2.5 full course credits in CHM of which at least 2.0 must be at the C- or D-level and 0.5 of which must be at the D-level. One of these C- or D-level half credits must include a laboratory component.**
	** Students should note that if they are going to select CHMC20H3/CHMC21H3 , MATA23H3 and MATB41H3 will need to be taken in addition to their other program requirements.	** Students should note that if they are going to select CHMC20H3/CHMC21H3 , MATA23H3 and MATB41H3 will need to be taken in addition to their other program requirements.
		Note, however, that this program cannot be combined with the Major Program in Biochemistry. When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements)

Program notes/tables

Program: SCMIN1688 - Compare

Code	SCMIN1688	SCMIN1688
Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	Computer Science	Computer Science
Title	MINOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)	MINOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</i></p> <p>Program Objectives This program provides a basic introduction to the tools and methodologies of computer science and equips students with the knowledge necessary to use the tools and methodologies as they relate to other subjects. The program is intended to complement programs in other disciplines.</p> <p>Program Requirements This program may not be combined with any Major or Specialist Program in Computer Science, Mathematics or Statistics. It requires 4.0 credits as follows:</p> <p>1. Introductory programming courses (1.0 credit) CSCA08H3 Introduction to Computer Science I (*) CSCA48H3 Introduction to Computer Science II (*) CSCA20H3 may be substituted for CSCA08H3 with permission of the Supervisor of Studies.</p> <p>2. Basic mathematics courses (0.5 credit) One of: CSCA67H3 Discrete Mathematics MATA23H3 Linear Algebra I MATA30H3 Calculus I for Biological and Physical Sciences MATA31H3 Calculus I for Mathematical Sciences MATA32H3 Calculus for Management I PHLB50H3 Symbolic Logic I</p> <p>3. Intermediate programming, systems, and theory courses (1.5 credits) Three of: CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Programming CSCB20H3 Introduction to Databases and Web Applications CSCB36H3 Introduction to the Theory of Computation(**) CSCB58H3 Computer Organization CSCB63H3 Design and Analysis of Data Structures(***) (**) CSCB36H3 requires CSCA67H3 (***) CSCB63H3 requires CSCB36H3</p> <p>4. CSC electives (1.0 credit) Two of: Any C- or D-level CSC courses (*) (*) Some C- or D-level courses have prerequisites that would have to be taken <i>in addition</i> to the 4 credits required for this program. Check the prerequisites carefully before selecting courses to satisfy this requirement.</p>	<p><i>Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</i></p> <p>Program Objectives This program provides a basic introduction to the tools and methodologies of computer science and equips students with the knowledge necessary to use the tools and methodologies as they relate to other subjects. The program is intended to complement programs in other disciplines.</p> <p>Program Admission Enrolment in the Minor in Computer Science is limited. Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required for the Minor. Students with a CGPA of at least 2.5 across CSCA48H3 and their chosen MAT course (MATA23H3, MATA30H3, MATA31H3, MATA32H3, or CSCA67H3/MATA67H3) are guaranteed admission. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program. Students in the Minor may take a maximum of 3 CSC elective courses (1.5 credits) at the C-level and D-level.</p> <p>Program Requirements This program may not be combined with any Major or Specialist Program in Computer Science, Mathematics or Statistics. It requires 4.0 credits as follows:</p> <p>1. Introductory programming courses (1.0 credit) CSCA08H3 Introduction to Computer Science I (*) CSCA48H3 Introduction to Computer Science II (*) CSCA20H3 may be substituted for CSCA08H3 with permission of the Supervisor of Studies.</p> <p>2. Basic mathematics courses (0.5 credit) One of: CSCA67H3/MATA67H3 Discrete Mathematics MATA23H3 Linear Algebra I MATA30H3 Calculus I for Physical Sciences MATA31H3 Calculus I for Mathematical Sciences MATA32H3 Calculus for Management I PHLB50H3 Symbolic Logic I</p> <p>3. Intermediate programming, systems, and theory courses (1.5 credits) Three of: CSCB07H3 Software Design CSCB09H3 Software Tools and Systems Programming CSCB20H3 Introduction to Databases and Web Applications CSCB36H3 Introduction to the Theory of Computation(**) CSCB58H3 Computer Organization CSCB63H3 Design and Analysis of Data Structures(***) (**) CSCB36H3 requires CSCA67H3 (***) CSCB63H3 requires CSCB36H3</p> <p>4. CSC electives (1.0 credit) Two of: Any C- or D-level CSC courses (*) (*) Some C- or D-level courses have prerequisites that would have to be taken <i>in addition</i> to the 4 credits required for this program. Check the prerequisites carefully before selecting courses to satisfy this requirement.</p>

Program notes/tables

Program: SCSPE0370 - Compare

Code	SCSPE0370	SCSPE0370
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	Environmental Science	Environmental Science
Title	SPECIALIST PROGRAM IN ENVIRONMENTAL BIOLOGY (SCIENCE)	SPECIALIST PROGRAM IN ENVIRONMENTAL BIOLOGY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies: M. Isaac (416-287-7276) Email: marney.issac@utoronto.ca</i></p> <p>Program Requirements Total requirements: 14.0 full credits</p> <p>First Year: EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]</p> <p>Second Year: BIOB50H3 Ecology BIOB51H3 Evolutionary Biology BIOB52H3 Ecology and Evolutionary Biology Laboratory EESB15H3 Earth History EESB16H3 Feeding Humans - The Cost to the Planet STAB22H3 Statistics I PSCB57H3 Introduction to Scientific Computing or CSCA08H3 Introduction to Computer Science I] <i>and</i> 1.0 full credit from the following: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science CHMB55H3 Environmental Chemistry</p> <p>Third and Fourth Years: 2.0 credits as follows: EESC03H3 Geographic Information Systems and Remote Sensing EESC04H3 Biodiversity and Biogeography EESC30H3 Microbial Biogeochemistry EESC13H3 Environmental Impact Assessment and Auditing</p> <p>2.0 credits from: BIOC51H3 Tropical Biodiversity Field Course BIOC52H3 Ecology Field Course BIOC58H3 Biological Consequences of Global Change BIOC59H3 Advanced Population Ecology BIOC61H3 Community Ecology and Environmental Biology BIOC65H3 Environmental Toxicology BIOC62H3 The Role of Zoos in Conservation BIOC63H3 Conservation Biology (BIOC67H3) Inter-University Biology Field Course</p> <p>1.0 credit from: EESD02H3 Contaminant Hydrogeology EESD06H3 Climate Change Impact Assessment EESD13H3 Environmental Law and Ethics EESD15H3 Cleaning Up our Mess: Remediation of Terrestrial and Aquatic Environments EESC20H3 Geochemistry EESD09H3 Research Project in Environmental Science EESD10Y3 Research Project in Environmental Sciences BIOD52H3 Special Topics in Biodiversity and Systematics BIOD60H3 Spatial Ecology</p>	<p><i>Acting Supervisor of Studies: A. Martin (416-287-7326) Email: adam.martin@utoronto.ca</i></p> <p>Program Requirements Total requirements: 14.0 full credits</p> <p>First Year: EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]</p> <p><i>Note: MATA35H3 cannot be used to fulfill the prerequisites for PSCB57H3</i></p> <p>Second Year: BIOB50H3 Ecology BIOB51H3 Evolutionary Biology BIOB52H3 Ecology and Evolutionary Biology Laboratory EESB15H3 Earth History EESB16H3 Feeding Humans - The Cost to the Planet STAB22H3 Statistics I PSCB57H3 Introduction to Scientific Computing or CSCA08H3 Introduction to Computer Science I] <i>and</i> 1.0 full credit from the following: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science CHMB55H3 Environmental Chemistry</p> <p>Third and Fourth Years: 2.0 credits as follows: EESC03H3 Geographic Information Systems and Remote Sensing EESC04H3 Biodiversity and Biogeography EESC30H3 Environmental Microbiology EESC13H3 Environmental Impact Assessment and Auditing</p> <p>2.0 credits from: BIOC51H3 Tropical Biodiversity Field Course BIOC52H3 Ecology Field Course BIOC58H3 Biological Consequences of Global Change BIOC59H3 Advanced Population Ecology BIOC61H3 Community Ecology and Environmental Biology BIOC65H3 Environmental Toxicology BIOC62H3 The Role of Zoos in Conservation BIOC63H3 Conservation Biology (BIOC67H3) Inter-University Biology Field Course</p> <p>1.0 credit from: EESD02H3 Contaminant Hydrogeology EESD06H3 Climate Change Impact Assessment EESD13H3 Environmental Law, Policy and Ethics EESD15H3 Fundamentals of Site Remediation EESC20H3 Geochemistry EESD09H3 Research Project in Environmental Science EESD10Y3 Research Project in Environmental Sciences</p>

[BIOD66H3](#) Causes and Consequences of Biodiversity
[BIOD95H3](#) Supervised Study in Biology
[BIOD98Y3](#) Research Project in Biology

[BIOD52H3](#) Special Topics in Biodiversity and Systematics
[BIOD60H3](#) Spatial Ecology
[BIOD66H3](#) Causes and Consequences of Biodiversity
[BIOD95H3](#) Supervised Study in Biology
[BIOD98Y3](#) Research Project in Biology

Program notes/tables

Program: SCSPE0360 - Compare

Code	SCSPE0360	SCSPE0360
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	Environmental Science	Environmental Science
Title	SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY (SCIENCE)	SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Supervisor of Studies: Myrna Simpson (416) 287-7234 *Email:* myrna.simpson@utoronto.ca

Supervisor of Studies: Myrna Simpson (416) 287-7234 *Email:* myrna.simpson@utoronto.ca

Program Requirements

Total requirements: 15.0 full credits

Program Requirements

Total requirements: 15.0 full credits

First Year:

[EESA01H3](#) Introduction to Environmental Science
[EESA06H3](#) Introduction to Planet Earth
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Biological and Physical Sciences
[MATA36H3](#) Calculus II for Physical Sciences
[PHYA10H3](#) Introduction to Physics IA

First Year:

[EESA01H3](#) Introduction to Environmental Science
[EESA06H3](#) Introduction to Planet Earth
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Physical Sciences
[MATA36H3](#) Calculus II for Physical Sciences
[PHYA10H3](#) Introduction to Physics IA

Second Year:

[BIOB50H3](#) Ecology
[CHMB20H3](#) Chemical Thermodynamics and Elementary Kinetics
[CHMB21H3](#) Chemical Structure and Spectroscopy
[CHMB41H3](#) Organic Chemistry I
[CHMB42H3](#) Organic Chemistry II
[CHMB55H3](#) Environmental Chemistry
[EESB15H3](#) Earth History
[STAB22H3](#) Statistics I

Second Year:

[CHMB16H3](#) Techniques in Analytical Chemistry
[CHMB20H3](#) Chemical Thermodynamics and Elementary Kinetics
[CHMB41H3](#) Organic Chemistry I
[CHMB42H3](#) Organic Chemistry II
[CHMB55H3](#) Environmental Chemistry
[EESB15H3](#) Earth History
[STAB22H3](#) Statistics I

and

0.5 credit from the following:

[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science
[EESB19H3](#) Mineralogy

and

1.0 credit from the following:

[CHMB21H3](#) Chemical Structure and Spectroscopy
[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science

Third Year:

[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[CHMB16H3](#) Techniques in Analytical Chemistry
[CHMB31H3](#) Introduction to Inorganic Chemistry
[PSCB57H3](#) Introduction to Scientific Computing

Third Year:

[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[CHMB31H3](#) Introduction to Inorganic Chemistry
[CHMC11H3](#) Principles of Analytical Instrumentation
[PSCB57H3](#) Introduction to Scientific Computing

Fourth Year:

[CHMC11H3](#) Principles of Analytical Instrumentation
 and
 1.0 credit from the following:
[EESD02H3](#) Contaminant Hydrogeology
[EESD13H3](#) Environmental Law and Ethics
[EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

Fourth Year:

[CHMD16H3](#) Environmental and Analytical Chemistry
 and
 1.0 credit from the following:
[EESD02H3](#) Contaminant Hydrogeology
[EESD13H3](#) Environmental Law, Policy and Ethics
[EESD15H3](#) Fundamentals of Site Remediation

and

1.0 credit from the following:

[CHMC21H3](#) Topics in Biophysical Chemistry
[CHMC31Y3](#) Intermediate Inorganic Chemistry
[CHMC41H3](#) Organic Reaction Mechanisms
[CHMC42H3](#) Organic Synthesis
[CHMC47H3](#) Bio-Organic Chemistry
[CHMD59H3](#) Topics in Environmental Chemistry
[CHMD89H3](#) Introduction to Green Chemistry

and

1.0 credit from the following:

[CHMC21H3](#) Topics in Biophysical Chemistry
[CHMC31Y3](#) Intermediate Inorganic Chemistry
[CHMC41H3](#) Organic Reaction Mechanisms
[CHMC42H3](#) Organic Synthesis
[CHMC47H3](#) Bio-Organic Chemistry
[CHMD59H3](#) Topics in Environmental Chemistry
[CHMD89H3](#) Introduction to Green Chemistry
[CHMD90Y3](#) Directed Research in Chemistry
[CHMD91H3](#) Directed Research in Chemistry
[CHMD92H3](#) Advanced Chemistry Laboratory Course

Program notes/tables

Program: SCSPE0350A - Compare

Code	SCSPE0350A	SCSPE0350A
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	Environmental Science	Environmental Science
Title	SPECIALIST PROGRAM IN ENVIRONMENTAL GEOSCIENCE (SCIENCE)	SPECIALIST PROGRAM IN ENVIRONMENTAL GEOSCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Supervisor of Studies: M. Meriano (416-208-2775) Email:
mmeriano@utsc.utoronto.ca

This program has been designed to meet the expectations of the Association of Professional Geoscientists of Ontario (APGO) - the licensing and regulatory body responsible for ensuring that geoscientists have the appropriate qualifications to practice. Students are encouraged to make careful choice of optional/elective courses to meet APGO requirements.

Please visit the [APGO website](#) for further information on requirements to become a Professional Geoscientist (P.Geo) in Ontario.

Program Requirements

Total requirements: 15.5 full credits of which 1.0 must be at the D-level as follows:

First Year:

[EESA01H3](#) Introduction to Environmental Science
[EESA06H3](#) Introduction to Planet Earth
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Biological and Physical Sciences
[MATA36H3](#) Calculus II for Physical Sciences or [MATA37H3](#) Calculus II for Mathematical Sciences]
[PHYA10H3](#) Introduction to Physics IA or [PHYA11H3](#) Introduction to Physics IB]

Second Year:

[CHMB55H3](#) Environmental Chemistry
[EESB02H3](#) Principles of Geomorphology
[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science
[EESB15H3](#) Earth History
[EESB18H3](#) Natural Hazards
[EESB19H3](#) Mineralogy
[PSCB57H3](#) Introduction to Scientific Computing
[STAB22H3](#) Statistics I

Third Year:

[EESB20H3](#) Sedimentology and Stratigraphy
[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC31H3](#) Glacial Geology
[EESC36H3](#) Petrology
and
0.5 credit from the following:
[BIOB50H3](#) Ecology
[EESC18H3](#) The Great Lakes: An Introduction to Physical Limnology
[EESC19H3](#) Marine Systems]

Fourth Year:

[EESC37H3](#) Structural Geology
and
0.5 credit from the following:
[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area
[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment

Supervisor of Studies: M. Meriano (416-208-2775) Email:
mmeriano@utsc.utoronto.ca

This program has been designed to meet the expectations of the Association of Professional Geoscientists of Ontario (APGO) - the licensing and regulatory body responsible for ensuring that geoscientists have the appropriate qualifications to practice. Students are encouraged to make careful choice of optional/elective courses to meet APGO requirements.

Please visit the [APGO website](#) for further information on requirements to become a Professional Geoscientist (P.Geo) in Ontario.

Program Requirements

Total requirements: 15.5 full credits of which 1.0 must be at the D-level as follows:

First Year:

[EESA01H3](#) Introduction to Environmental Science
[EESA06H3](#) Introduction to Planet Earth
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Physical Sciences
[MATA36H3](#) Calculus II for Physical Sciences or [MATA37H3](#) Calculus II for Mathematical Sciences]
[PHYA10H3](#) Introduction to Physics IA or [PHYA11H3](#) Introduction to Physics IB]

Second Year:

[CHMB55H3](#) Environmental Chemistry
[EESB02H3](#) Principles of Geomorphology
[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science
[EESB15H3](#) Earth History
[EESB18H3](#) Natural Hazards
[EESB19H3](#) Mineralogy
[PSCB57H3](#) Introduction to Scientific Computing
[STAB22H3](#) Statistics I

Third Year:

[EESB20H3](#) Sedimentology and Stratigraphy
[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC31H3](#) Glacial Geology
[EESC36H3](#) Petrology
and
0.5 credit from the following:
[BIOB50H3](#) Ecology
[EESC18H3](#) Limnology
[EESC19H3](#) Oceanography]

Fourth Year:

[EESC37H3](#) Structural Geology
and
0.5 credit from the following:
[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment
[EESD09H3](#) Research Project in Environmental Science

[EESD09H3](#) Research Project in Environmental Science
[EESD10Y3](#) Research Project in Environmental Science
[EESD11H3](#) Process Hydrology
[EESD13H3](#) Environmental Law and Ethics
[EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments
[EESD19H3](#) Professional Development Seminars in Geoscience

and
1.0 full credit from any other EES courses
Strongly recommended: [EESC16H3](#) Field Methods or [EESD07H3](#) Field Camp II

[EESD10Y3](#) Research Project in Environmental Science
[EESD11H3](#) Process Hydrology
[EESD13H3](#) Environmental Law, Policy, and Ethics
[EESD15H3](#) Fundamentals of Site Remediation
[EESD19H3](#) Professional Development Seminars in Geoscience
[EESD20H3](#) Urban Environmental Problems of the Greater Toronto Area

and
1.0 full credit from any other EES courses
Strongly recommended: [EESC16H3](#) Field Methods or [EESD07H3](#) Field Camp II

Program notes/tables

Program: SCMAJ1076 - Compare

Code	SCMAJ1076	SCMAJ1076
Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	Environmental Science	Environmental Science
Title	MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE (SCIENCE)	MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Supervisor of Studies: G. Armonditsis (416-208-4858) Email: georgea@utsc.utoronto.ca</p> <p>Program Requirements This program requires 8.5 full credits as follows:</p> <p>First Year BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms [(MATA20H3) Calculus A or MATA30H3 Calculus I for Biological and Physical Sciences] [(MATA21H3) Calculus B or MATA35H3 or MATA36H3 Calculus II for Biological/Physical Sciences] PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB] EESA06H3 Planet Earth</p> <p>Second Year STAB22H3 Statistics I <i>and</i> 1.5 credits from: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History EESB16H3 Feeding Humans - The Cost to the Planet <i>and</i> 0.5 credits from: BIOB50H3 Ecology EESB02H3 Principles of Geomorphology EESB17H3 Hydro Politics and Transboundary Water Resource Management PSCB57H3 Introduction to Scientific Computing CHMB55H3 Environmental Chemistry</p> <p>Third & Fourth Years 2.0 credits from C- & D-level EES courses with at least 0.5 credit at the D-level</p>	<p>Supervisor of Studies: I. Mohsin (416-287-7245) Email: tanzina.mohsin@utoronto.ca</p> <p>Program Requirements This program requires 8.5 full credits as follows:</p> <p>First Year BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms [(MATA20H3) Calculus A or MATA30H3 Calculus I for Physical Sciences] [(MATA21H3) Calculus B or MATA35H3 or MATA36H3 Calculus II for Biological/Physical Sciences] PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB] EESA06H3 Planet Earth</p> <p>*Note: MATA35H3 cannot be used to fulfill the prerequisites for PSCB57H3</p> <p>Second Year STAB22H3 Statistics I <i>and</i> 1.5 credits from: EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History EESB16H3 Feeding Humans - The Cost to the Planet <i>and</i> 0.5 credits from: BIOB50H3 Ecology EESB02H3 Principles of Geomorphology EESB17H3 Hydro Politics and Transboundary Water Resource Management PSCB57H3 Introduction to Scientific Computing CHMB55H3 Environmental Chemistry</p> <p>Third & Fourth Years 2.0 credits from C- & D-level EES courses with at least 0.5 credit at the D-level</p>
Program notes/tables		

Program: SCMAJ1165 - Compare

Code	SCMAJ1165	SCMAJ1165
Owning Organizations	MAT, MSCSC	MAT, MSCSC
Sections	Mathematics	Mathematics
Title	MAJOR PROGRAM IN MATHEMATICS (SCIENCE)	MAJOR PROGRAM IN MATHEMATICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> N. Breuss (416-287-7226) Email: n.breuss@utoronto.ca</p> <p>Program Objectives This program provides a solid foundation in basic areas of mathematics, especially those with applications in other disciplines. This program is intended to be combined with other programs, typically a major program in another discipline.</p> <p>Program Requirements This stream requires a total of 17 distinct courses or (8.5 credits), chosen so as to satisfy all of the following requirements:</p> <p>1. Foundational courses - 5.5 credits as follows: [MATA67H3 or CSCA67H3 Discrete Mathematics] [MATA23H3 Linear Algebra I] [MATA30H3 Calculus I for Biological and Physical Sciences OR MATA31H3 Calculus I for Mathematical Sciences] [MATA36H3 Calculus II for Physical Sciences OR MATA37H3 Calculus II for Mathematical Sciences (*)] [CSCA08H3 Introduction to Computer Science I] [MATB24H3 Linear Algebra II] [MATB41H3 Techniques of the Calculus of Several Variables I] [MATB42H3 Techniques of the Calculus of Several Variables II] [MATB44H3 Differential Equations I] [STAB52H3 Introduction to Probability] [MATC01H3 Groups and Symmetry OR MATC15H3 Introduction to Number Theory]</p> <p>(*) [MATA31H3] is required for [MATA37H3]</p> <p>2. Further analysis courses - 1.0 credit from the following: [MATB43H3 Introduction to Analysis] [MATC27H3 Introduction to Topology] [MATC34H3 Complex Variables] [MATC37H3 Introduction to Real Analysis] [MATC46H3 Differential Equations II] [MATD34H3 Complex Variables II]</p> <p>3. Further algebra, geometry, and discrete mathematics courses - 1.0 credit from the following: [MATC01H3 Groups and Symmetry] [MATC09H3 Introduction to Mathematical Logic] [MATC15H3 Introduction to Number Theory] [MATC32H3 Graph Theory and Algorithms for its Applications] [MATC44H3 Introduction to Combinatorics] [MATC63H3 Differential Geometry] [MATD01H3 Fields and Groups] [MATD02H3 Classical Plane Geometries and their Transformations]</p> <p>4. Elective courses - 1.0 credit from the following: [MATB61H3 Linear Programming and Optimization] [STAB57H3 Introduction to Statistics] any C- or D-level MAT, STA, or CSC course, excluding [STAD29H3]</p> <p>Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year. [ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB09H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HLTA01H3), ACMA01H3, (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.]</p>	<p><i>Supervisor of Studies:</i> N. Breuss (416-287-7226) Email: n.breuss@utoronto.ca</p> <p>Program Objectives This program provides a solid foundation in basic areas of mathematics, especially those with applications in other disciplines. This program is intended to be combined with other programs, typically a major program in another discipline.</p> <p>Program Requirements This stream requires a total of 17 distinct courses or (8.5 credits), chosen so as to satisfy all of the following requirements:</p> <p>1. Foundational courses - 5.5 credits as follows: [MATA67H3 or CSCA67H3 Discrete Mathematics] [MATA23H3 Linear Algebra I] [MATA30H3 Calculus I for Physical Sciences OR MATA31H3 Calculus I for Mathematical Sciences] [MATA36H3 Calculus II for Physical Sciences OR MATA37H3 Calculus II for Mathematical Sciences (*)] [CSCA08H3 Introduction to Computer Science I] [MATB24H3 Linear Algebra II] [MATB41H3 Techniques of the Calculus of Several Variables I] [MATB42H3 Techniques of the Calculus of Several Variables II] [MATB44H3 Differential Equations I] [STAB52H3 Introduction to Probability] [MATC01H3 Groups and Symmetry OR MATC15H3 Introduction to Number Theory]</p> <p>(*) [MATA31H3] is required for [MATA37H3]</p> <p>2. Further analysis courses - 1.0 credit from the following: [MATB43H3 Introduction to Analysis] [MATC27H3 Introduction to Topology] [MATC34H3 Complex Variables] [MATC37H3 Introduction to Real Analysis] [MATC46H3 Differential Equations II] [MATD34H3 Complex Variables II]</p> <p>3. Further algebra, geometry, and discrete mathematics courses - 1.0 credit from the following: [MATC01H3 Groups and Symmetry] [MATC09H3 Introduction to Mathematical Logic] [MATC15H3 Introduction to Number Theory] [MATC32H3 Graph Theory and Algorithms for its Applications] [MATC44H3 Introduction to Combinatorics] [MATC63H3 Differential Geometry] [MATD01H3 Fields and Groups] [MATD02H3 Classical Plane Geometries and their Transformations]</p> <p>4. Elective courses - 1.0 credit from the following: [MATB61H3 Linear Programming and Optimization] [STAB57H3 Introduction to Statistics] any C- or D-level MAT, STA, or CSC course, excluding [STAD29H3]</p> <p>Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year. [ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB09H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HLTA01H3), ACMA01H3, (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.]</p>

Program notes/tables

Program: SCSPE1472 - Compare

Code	SCSPE1472	SCSPE1472
Owning Organizations	NRO,PSYSC	NRO,PSYSC
Sections	Neuroscience	Neuroscience
Title	SPECIALIST PROGRAM IN NEUROSCIENCE (SCIENCE)	SPECIALIST PROGRAM IN NEUROSCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>This program requires completion of 14.0 credits:</p> <ol style="list-style-type: none"> The following 4.0 credits: <ul style="list-style-type: none"> BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences or (MATA20H3) Calculus A] PHYA10H3 Physics IA or PHYA11H3 Physics IB] PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II The following 3.5 credits: <ul style="list-style-type: none"> BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II NROB60H3 Neuroanatomy Laboratory PSYB65H3 Human Brain & Behaviour STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology] The following 5.5 credits: <ul style="list-style-type: none"> BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics & Metabolism BIOC32H3 Human Physiology I BIOC33H3 Human Physiology II: Lecture & Laboratory NROC34H3 Neuroethology (Invertebrate Neurobiology) NROC61H3 Learning & Motivation NROC63H3 Neuroscience Laboratory NROC64H3 Sensorimotor Systems NROC69H3 Synaptic Organization & Physiology of the Brain PSYC08H3 Advanced Data Analysis in Psychology PSYC62H3 Drugs & the Brain 1.0 credit from the following: <ul style="list-style-type: none"> BIOC14H3 Genes, Environment and Behaviour BIOD19H3 Epigenetics in Health and Disease BIOD27H3 Molecular Endocrinology BIOD45H3 Animal Communication BIOD65H3 Pathologies of the Nervous System NROD60H3 Current Topics in Neuroscience NROD08H3/BIOD08H3 Theoretical Neuroscience NROD63H3 Advanced Neuroscience Laboratory NROD66H3 Drug Addiction NROD67H3 Psychobiology of Aging PSYD17H3 Social Neuroscience PSYD33H3 Current Topics in Abnormal Psychology PSYD66H3 Current Topics in Human Brain & Behaviour <p>Note: 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards Requirement 4.</p> 	<p>Program Requirements</p> <p>This program requires completion of 14.0 credits:</p> <ol style="list-style-type: none"> The following 4.0 credits: <ul style="list-style-type: none"> BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences or (MATA20H3) Calculus A] PHYA10H3 Physics IA or PHYA11H3 Physics IB] PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II The following 3.5 credits: <ul style="list-style-type: none"> BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes CHMB41H3 Organic Chemistry I CHMB42H3 Organic Chemistry II NROB60H3 Neuroanatomy Laboratory PSYB65H3 Human Brain & Behaviour STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology] The following 5.5 credits: <ul style="list-style-type: none"> BIOC12H3 Biochemistry I: Proteins & Enzymes BIOC13H3 Biochemistry II: Bioenergetics & Metabolism BIOC32H3 Human Physiology I BIOC33H3 Human Physiology II: Lecture & Laboratory NROC34H3 Neuroethology (Invertebrate Neurobiology) NROC61H3 Learning & Motivation NROC63H3 Neuroscience Laboratory NROC64H3 Sensorimotor Systems NROC69H3 Synaptic Organization & Physiology of the Brain PSYC08H3 Advanced Data Analysis in Psychology PSYC62H3 Drugs & the Brain 1.0 credit from the following: <ul style="list-style-type: none"> BIOC14H3 Genes, Environment and Behaviour BIOD19H3 Epigenetics in Health and Disease BIOD27H3 Molecular Endocrinology BIOD45H3 Animal Communication BIOD65H3 Pathologies of the Nervous System NROD60H3 Current Topics in Neuroscience NROD08H3/BIOD08H3 Theoretical Neuroscience NROD63H3 Advanced Neuroscience Laboratory NROD66H3 Drug Addiction NROD67H3 Psychobiology of Aging PSYD17H3 Social Neuroscience PSYD33H3 Current Topics in Abnormal Psychology PSYD66H3 Current Topics in Human Brain & Behaviour <p>Note: 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards Requirement 4.</p>
Program notes/tables		

Program: SCSPE1660 - Compare

Code	SCSPE1660	SCSPE1660
Owning Organizations	PHSSC,PSC	PHSSC,PSC
Sections	Physical Sciences	Physical Sciences
Title	SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)	SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> P. Artymowicz (416-287-7244) <i>Email:</i> pawel@utsc.utoronto.ca</p> <p>This Program provides a framework of courses in the Physical Sciences based upon a firm Mathematical foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.</p>	<p><i>Supervisor:</i> P. Artymowicz (416-287-7244) <i>Email:</i> pawel@utsc.utoronto.ca</p> <p>This Program provides a framework of courses in the Physical Sciences based upon a firm Mathematical foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.</p>
	Program Requirements This program requires 15.5 credits as follows:	Program Requirements This program requires 15.5 credits as follows:
	<p>First Year:</p> <p>PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences MATA23H3 Linear Algebra I MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]</p>	<p>First Year:</p> <p>PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA23H3 Linear Algebra I MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]</p>
	<p>Second Year</p> <p>PHYB10H3 Intermediate Physics Laboratory I PHYB56H3 Introduction to Quantum Physics PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB44H3 Differential Equations I</p>	<p>Second Year</p> <p>PHYB10H3 Intermediate Physics Laboratory I PHYB56H3 Introduction to Quantum Physics PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB44H3 Differential Equations I</p>
	<p>Second or Third Year</p> <p>PHYB54H3 Mechanics: From Oscillations to Chaos ASTB23H3 Astrophysics of Stars, Galaxies and the Universe CHMB20H3 Chemical Thermodynamics and Elementary Kinetics CHMB21H3 Chemical Structure and Spectroscopy MATB61H3 Linear Programming PSCB57H3 Introduction to Scientific Computing CSCB58H3 Computer Organization STAB52H3 An Introduction to Probability</p>	<p>Second or Third Year</p> <p>PHYB54H3 Mechanics: From Oscillations to Chaos ASTB23H3 Astrophysics of Stars, Galaxies and the Universe CHMB20H3 Chemical Thermodynamics and Elementary Kinetics CHMB21H3 Chemical Structure and Spectroscopy MATB61H3 Linear Programming PSCB57H3 Introduction to Scientific Computing CSCB58H3 Computer Organization STAB52H3 An Introduction to Probability</p>
	<p>Third or Fourth Year</p> <p>4.0 credits from:</p> <p>ASTC25H3 Astrophysics of Planetary Systems MATC34H3 Complex Variables MATC46H3 Differential Equations II PHYC50H3 Electromagnetic Theory PHYC56H3 Quantum Mechanics I PHYC11H3 Intermediate Physics Laboratory II PHYC54H3 Classical Mechanics PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Introduction to Nonlinear Systems and Chaos CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics CSCD37H3 Analysis of Numerical Algorithms for Computational Mathematics PSCD02H3 Current Questions in Mathematics and Science PHYD26H3 Planetary Geophysics PSCD50H3 Advanced Topics in Quantum Mechanics PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]</p>	<p>Third or Fourth Year</p> <p>4.0 credits from:</p> <p>ASTC25H3 Astrophysics of Planetary Systems MATC34H3 Complex Variables MATC46H3 Differential Equations II PHYC50H3 Electromagnetic Theory PHYC56H3 Quantum Mechanics I PHYC11H3 Intermediate Physics Laboratory II PHYC54H3 Classical Mechanics PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Introduction to Nonlinear Systems and Chaos CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics CSCD37H3 Analysis of Numerical Algorithms for Computational Mathematics PSCD02H3 Current Questions in Mathematics and Science PHYD26H3 Planetary Geophysics PSCD50H3 Advanced Topics in Quantum Mechanics PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]</p>

Program notes/tables

Program: SCMAJ2010 - Compare

Code	SCMAJ2010	SCMAJ2010
Owning Organizations	PHSSC,PSC	PHSSC,PSC
Sections	Physical Sciences	Physical Sciences
Title	MAJOR PROGRAM IN PHYSICAL SCIENCES (SCIENCE)	MAJOR PROGRAM IN PHYSICAL SCIENCES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor:</i> G. Lorincz (416-287-7248) <i>Email:</i> lorincz@utsc.utoronto.ca</p> <p>The Major Program in Physical Sciences is intended for students desiring a general background in the physical sciences (with emphasis in the area of astronomy, physics and physical chemistry) but who do not intend to pursue graduate studies.</p> <p>Parallel major Programs for students more interested in the mathematical sciences or in chemistry are offered in Mathematical Sciences, in Chemistry, and in Biochemistry.</p> <p>Program Requirements: This program requires 8.0 full credits as follows:</p> <p>First Year: PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences MATA23H3 Linear Algebra I MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]</p> <p>Second or Third Year Five of: PHYB10H3 Intermediate Physics Laboratory I PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics PHYB54H3 Mechanics: From Oscillations to Chaos PHYB56H3 Introduction to Quantum Physics MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB44H3 Differential Equations I ASTB23H3 Astrophysics of Stars, Galaxies and the Universe CHMB20H3 Chemical Thermodynamics and Elementary Kinetics CHMB21H3 Chemical Structure and Spectroscopy STAB22H3 Statistics I</p> <p>Third or Fourth Year Four of: ASTC25H3 Astrophysics of Planetary Systems MATC34H3 Complex Variables MATC46H3 Differential Equations II PHYC50H3 Electromagnetic Theory PHYC56H3 Quantum Mechanics I PHYC11H3 Intermediate Physics Laboratory II PHYC54H3 Classical Mechanics PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Introduction to Nonlinear Systems and Chaos PSCB57H3 Introduction to Scientific Computing PSCD02H3 Current Questions in Mathematics and Science PHYD26H3 Planetary Geophysics PSCD50H3 Advanced Topics in Quantum Mechanics PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]</p>	<p><i>Supervisor:</i> G. Lorincz (416-287-7248) <i>Email:</i> lorincz@utsc.utoronto.ca</p> <p>The Major Program in Physical Sciences is intended for students desiring a general background in the physical sciences (with emphasis in the area of astronomy, physics and physical chemistry) but who do not intend to pursue graduate studies.</p> <p>Parallel major Programs for students more interested in the mathematical sciences or in chemistry are offered in Mathematical Sciences, in Chemistry, and in Biochemistry.</p> <p>Program Requirements: This program requires 8.0 full credits as follows:</p> <p>First Year: PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA23H3 Linear Algebra I MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]</p> <p>Second or Third Year Five of: PHYB10H3 Intermediate Physics Laboratory I PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics PHYB54H3 Mechanics: From Oscillations to Chaos PHYB56H3 Introduction to Quantum Physics MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB44H3 Differential Equations I ASTB23H3 Astrophysics of Stars, Galaxies and the Universe CHMB20H3 Chemical Thermodynamics and Elementary Kinetics CHMB21H3 Chemical Structure and Spectroscopy STAB22H3 Statistics I</p> <p>Third or Fourth Year Four of: ASTC25H3 Astrophysics of Planetary Systems MATC34H3 Complex Variables MATC46H3 Differential Equations II PHYC50H3 Electromagnetic Theory PHYC56H3 Quantum Mechanics I PHYC11H3 Intermediate Physics Laboratory II PHYC54H3 Classical Mechanics PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Introduction to Nonlinear Systems and Chaos PSCB57H3 Introduction to Scientific Computing PSCD02H3 Current Questions in Mathematics and Science PHYD26H3 Planetary Geophysics PSCD50H3 Advanced Topics in Quantum Mechanics PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]</p>

Program notes/tables

Program: SCSPE1076B - Compare

Code	SCSPE1076B	SCSPE1076B
Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	Physics and Astrophysics	Physics and Astrophysics
Title	SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS (SCIENCE)	SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Specialist Program in Environmental Physics (B.Sc.) includes a co-operative option. For more information and details regarding the program, and its admission requirements, please see the Environmental Science section of the Calendar at: http://www.utoronto.ca/~registrar/calendars/calendar?Environmental_Science.html</p> <p><i>Supervisors of Studies:</i> W.A. Gough (416-208-4873) Email: gough@utoronto.ca and J. Lowman (416 208-4880) Email: lowman@utoronto.ca</p>	<p>The Specialist Program in Environmental Physics (B.Sc.) includes a co-operative option. For more information and details regarding the program, and its admission requirements, please see the Environmental Science section of the Calendar at: http://www.utoronto.ca/~registrar/calendars/calendar?Environmental_Science.html</p> <p><i>Supervisors of Studies:</i> J. Lowman (416 208-4880) Email: lowman@utoronto.ca and T. Mohsin (416 287-7245) Email: tanzina.mohsin@utoronto.ca</p>
Program Requirements	Total Requirements: 15.5 full credits	Total Requirements: 15.5 full credits
First Year (4.0 credits):	<p>PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA MATA30H3 Calculus I for Biological and Physical Sciences MATA36H3 Calculus II for Physical Sciences CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms EESA06H3 Introduction to Planet Earth MATA23H3 Linear Algebra I</p>	<p>PHYA10H3 Introduction to Physics IA PHYA21H3 Introduction to Physics IIA MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms EESA06H3 Introduction to Planet Earth MATA23H3 Linear Algebra I</p>
Second Year (4.5 credits):	<p>PHYB10H3 Intermediate Physics Laboratory I PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics PHYB54H3 Mechanics: From Oscillations to Chaos MATB41H3 Techniques of Calculus of Several Variables I MATB42H3 Techniques of Calculus of Several Variables II MATB44H3 Differential Equations I</p> <p>Two of: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p>	<p>PHYB10H3 Intermediate Physics Laboratory I PHYB21H3 Electricity and Magnetism PHYB52H3 Thermal Physics PHYB54H3 Mechanics: From Oscillations to Chaos MATB41H3 Techniques of Calculus of Several Variables I MATB42H3 Techniques of Calculus of Several Variables II MATB44H3 Differential Equations I</p> <p>Two of: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p>
Third Year (4.0 credits):	<p>PHYB56H3 Introduction to Quantum Physics PHYC11H3 Intermediate Physics Laboratory II PSCB57H3 Introduction to Scientific Computing MATC46H3 Differential Equations II STAB22H3 Statistics I</p> <p>One of: PHYC50H3 Electromagnetic Theory PHYC54H3 Classical Mechanics</p> <p>Two of: CHMB55H3 Environmental Chemistry EESC07H3 Groundwater EESC18H3 The Great Lakes: An Introduction to Physical Limnology EESC19H3 Marine Systems EESC20H3 Geochemistry EESC31H3 Glacial Geology</p>	<p>PHYB56H3 Introduction to Quantum Physics PHYC11H3 Intermediate Physics Laboratory II PSCB57H3 Introduction to Scientific Computing MATC46H3 Differential Equations II STAB22H3 Statistics I</p> <p>One of: PHYC50H3 Electromagnetic Theory PHYC54H3 Classical Mechanics</p> <p>Two of: CHMB55H3 Environmental Chemistry EESC07H3 Groundwater EESC18H3 Limnology EESC19H3 Oceanography EESC20H3 Geochemistry EESC31H3 Glacial Geology</p>
Fourth Year (3.0 credits):	<p>PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Nonlinear Systems and Chaos</p> <p>Four of: ASTC25H3 Astrophysics of Planetary Systems EESC03H3 Geographic Information Systems and Remote Sensing EESD02H3 Contaminant Hydrogeology EESD06H3 Climate Change Impact Assessment EESD09H3 Research Project in Environmental Science* EESD13H3 Environmental Law and Ethics</p>	<p>PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Nonlinear Systems and Chaos</p> <p>Four of: ASTC25H3 Astrophysics of Planetary Systems EESC03H3 Geographic Information Systems and Remote Sensing EESD02H3 Contaminant Hydrogeology EESD06H3 Climate Change Impact Assessment EESD09H3 Research Project in Environmental Science* EESD13H3 Environmental Law, Policy and Ethics</p>

[PHYC50H3](#) Electromagnetic Theory
[PHYC54H3](#) Classical Mechanics
[PHYD01H3](#) Research Project in Physics and Astrophysics*
[PHYD26H3](#) Planetary Geophysics
[PHYD72H3](#) Supervised Reading in Physics and Astrophysics*

*no more than two of [EESD10Y3](#), [PHYD01H3](#), and [PHYD72H3](#) may be counted as fulfilling the program requirements.

NOTE: Where any course appears on more than one option list, it may only be counted as fulfilling the requirements for one of those lists of options.

[PHYC50H3](#) Electromagnetic Theory
[PHYC54H3](#) Classical Mechanics
[PHYD01H3](#) Research Project in Physics and Astrophysics*
[PHYD26H3](#) Planetary Geophysics
[PHYD72H3](#) Supervised Reading in Physics and Astrophysics*

*no more than two of [EESD10Y3](#), [PHYD01H3](#), and [PHYD72H3](#) may be counted as fulfilling the program requirements.

NOTE: Where any course appears on more than one option list, it may only be counted as fulfilling the requirements for one of those lists of options.

Program notes/tables

Program: SCSPE1234A - Compare

Code	SCSPE1234A	SCSPE1234A
Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	Physics and Astrophysics	Physics and Astrophysics
Title	SPECIALIST PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)	SPECIALIST PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	Supervisor: K. Menou (416-287-5060) Email: kmenou@utsc.utoronto.ca	Supervisor: S. Tawfiq (416-287-7243) Email: tawfiq@utsc.utoronto.ca

Program Requirements:

The Program requires 13.0 full credits as follows:

First Year

[PHYA10H3](#) Introduction to Physics IA
[PHYA21H3](#) Introduction to Physics IIA
[MATA30H3](#) Calculus I for Biological and Physical Sciences
[MATA23H3](#) Linear Algebra I
[MATA36H3](#) Calculus II for Physical Sciences
or
[MATA37H3](#) Calculus II for Mathematical Sciences]

Second Year

[ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
[PHYB10H3](#) Intermediate Physics Laboratory I
[PHYB56H3](#) Introduction to Quantum Physics
[PHYB21H3](#) Electricity and Magnetism
[PHYB52H3](#) Thermal Physics
[PHYB54H3](#) Mechanics: From Oscillations to Chaos
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB42H3](#) Techniques of the Calculus of Several Variables II
[MATB44H3](#) Differential Equations I

Third Year

[PHYC50H3](#) Electromagnetic Theory
[PHYC56H3](#) Quantum Mechanics I
[PHYC11H3](#) Intermediate Physics Laboratory II
[PHYC54H3](#) Classical Mechanics
[PSCB57H3](#) Introduction to Scientific Computing
[MATC34H3](#) Complex Variables
[MATC46H3](#) Differential Equations II

Fourth Year

Three of:

[ASTC25H3](#) Astrophysics of Planetary Systems
[PHYD26H3](#) Planetary Geophysics
[PHYD37H3](#) Introduction to Fluid Mechanics
[PHYD38H3](#) Introduction to Nonlinear Systems and Chaos
PHY452H3 Basic Statistical Mechanics
PHY456H3 Quantum Mechanics II
PHY483H Relativity Theory I
PHY484H Relativity Theory II
PHY487H Condensed Matter Physics
PHY489H Introduction to High Energy Physics
PHY491H Current Interpretations of Quantum Mechanics
PHY492H Advanced Atmospheric Physics
PHY493H Geophysical Imaging I
PHY494H Geophysical Imaging II
PHY495H Experimental Global Geophysics
PHY496H Experimental Applied Geophysics
[PSCD50H3](#) Advanced Topics in Quantum Mechanics

One of:

[PHYD01H3](#) Research Project in Physics and Astrophysics
[PHYD72H3](#) Supervised Reading in Physics and Astrophysics

One additional 0.5 credit from a course in AST or PHY at the C-, D-, 300-, or 400-level, or

[PSCD02H3](#) Current Questions in Mathematics and Science

Program Requirements:

The Program requires 13.0 full credits as follows:

First Year

[PHYA10H3](#) Introduction to Physics IA
[PHYA21H3](#) Introduction to Physics IIA
[MATA30H3](#) Calculus I for Physical Sciences
[MATA23H3](#) Linear Algebra I
[MATA36H3](#) Calculus II for Physical Sciences
or
[MATA37H3](#) Calculus II for Mathematical Sciences]

Second Year

[ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
[PHYB10H3](#) Intermediate Physics Laboratory I
[PHYB56H3](#) Introduction to Quantum Physics
[PHYB21H3](#) Electricity and Magnetism
[PHYB52H3](#) Thermal Physics
[PHYB54H3](#) Mechanics: From Oscillations to Chaos
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB42H3](#) Techniques of the Calculus of Several Variables II
[MATB44H3](#) Differential Equations I

Third Year

[PHYC50H3](#) Electromagnetic Theory
[PHYC56H3](#) Quantum Mechanics I
[PHYC11H3](#) Intermediate Physics Laboratory II
[PHYC54H3](#) Classical Mechanics
[PSCB57H3](#) Introduction to Scientific Computing
[MATC34H3](#) Complex Variables
[MATC46H3](#) Differential Equations II

Fourth Year

Three of:

[ASTC25H3](#) Astrophysics of Planetary Systems
[PHYD26H3](#) Planetary Geophysics
[PHYD37H3](#) Introduction to Fluid Mechanics
[PHYD38H3](#) Introduction to Nonlinear Systems and Chaos
PHY452H3 Basic Statistical Mechanics
PHY456H3 Quantum Mechanics II
PHY483H Relativity Theory I
PHY484H Relativity Theory II
PHY487H Condensed Matter Physics
PHY489H Introduction to High Energy Physics
PHY491H Current Interpretations of Quantum Mechanics
PHY492H Advanced Atmospheric Physics
PHY493H Geophysical Imaging I
PHY494H Geophysical Imaging II
PHY495H Experimental Global Geophysics
PHY496H Experimental Applied Geophysics
[PSCD50H3](#) Advanced Topics in Quantum Mechanics

One of:

[PHYD01H3](#) Research Project in Physics and Astrophysics
[PHYD72H3](#) Supervised Reading in Physics and Astrophysics

One additional 0.5 credit from a course in AST or PHY at the C-, D-, 300-, or 400-level, or

[PSCD02H3](#) Current Questions in Mathematics and Science

Program notes/tables

Program: SCMAJ0275A - Compare

Code	SCMAJ0275A	SCMAJ0275A
Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	Physics and Astrophysics	Physics and Astrophysics
Title	MAJOR PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)	MAJOR PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	Supervisor: D. Valencia (416-208-2986) Email: diana.valencia@utoronto.ca	Supervisor: S. Tawfiq (416-2087-7243) Email: tawfiq@utsc.utoronto.ca

Program Requirements

This program requires 8.5 credits as follows:

First Year

[PHYA10H3](#) Introduction to Physics IA
[PHYA21H3](#) Introduction to Physics IIA
[MATA30H3](#) Calculus I for Biological and Physical Sciences
[MATA23H3](#) Linear Algebra I
[MATA36H3](#) Calculus II for Physical Sciences or [MATA37H3](#) Calculus II for Mathematical Sciences]

Second and Later Years

[ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB42H3](#) Techniques of the Calculus of Several Variables II
[MATB44H3](#) Differential Equations I
[PHYB10H3](#) Intermediate Physics Laboratory I

Three of:

[PHYB56H3](#) Introduction to Quantum Physics
[PHYB21H3](#) Electricity and Magnetism
[PHYB52H3](#) Thermal Physics
[PHYB54H3](#) Mechanics: From Oscillations to Chaos

A total of 2.0 credits from:

[ASTC25H3](#) Astrophysics of Planetary Systems
[MATC34H3](#) Complex Variables
[MATC46H3](#) Differential Equations II
[PHYC50H3](#) Electromagnetic Theory
[PHYC56H3](#) Quantum Mechanics I
[PHYC11H3](#) Intermediate Physics Laboratory II
[PHYC54H3](#) Classical Mechanics
[PHYD26H3](#) Planetary Geophysics
[PHYD37H3](#) Introduction to Fluid Mechanics
[PHYD38H3](#) Nonlinear Systems and Chaos
[PSCB57H3](#) Introduction to Scientific Computing
[PSCD02H3](#) Current Questions in Mathematics and Science
[PSCD50H3](#) Advanced Topics in Quantum Mechanics
[PHYD01H3](#) Research Project in Physics and Astrophysics or [PHYD72H3](#) Supervised Reading in Physics and Astrophysics]

Program Requirements

This program requires 8.5 credits as follows:

First Year

[PHYA10H3](#) Introduction to Physics IA
[PHYA21H3](#) Introduction to Physics IIA
[MATA30H3](#) Calculus I for Physical Sciences
[MATA23H3](#) Linear Algebra I
[MATA36H3](#) Calculus II for Physical Sciences or [MATA37H3](#) Calculus II for Mathematical Sciences]

Second and Later Years

[ASTB23H3](#) Astrophysics of Stars, Galaxies and the Universe
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB42H3](#) Techniques of the Calculus of Several Variables II
[MATB44H3](#) Differential Equations I
[PHYB10H3](#) Intermediate Physics Laboratory I

Three of:

[PHYB56H3](#) Introduction to Quantum Physics
[PHYB21H3](#) Electricity and Magnetism
[PHYB52H3](#) Thermal Physics
[PHYB54H3](#) Mechanics: From Oscillations to Chaos

A total of 2.0 credits from:

[ASTC25H3](#) Astrophysics of Planetary Systems
[MATC34H3](#) Complex Variables
[MATC46H3](#) Differential Equations II
[PHYC50H3](#) Electromagnetic Theory
[PHYC56H3](#) Quantum Mechanics I
[PHYC11H3](#) Intermediate Physics Laboratory II
[PHYC54H3](#) Classical Mechanics
[PHYD26H3](#) Planetary Geophysics
[PHYD37H3](#) Introduction to Fluid Mechanics
[PHYD38H3](#) Nonlinear Systems and Chaos
[PSCB57H3](#) Introduction to Scientific Computing
[PSCD02H3](#) Current Questions in Mathematics and Science
[PSCD50H3](#) Advanced Topics in Quantum Mechanics
[PHYD01H3](#) Research Project in Physics and Astrophysics or [PHYD72H3](#) Supervised Reading in Physics and Astrophysics]

Program notes/tables

Program: SCSPE2289 - Compare

Code	SCSPE2289	SCSPE2289
Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	Statistics	Statistics
Title	SPECIALIST PROGRAM IN STATISTICS (SCIENCE)	SPECIALIST PROGRAM IN STATISTICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Supervisor of Studies: S. Damouras Email:
sdamouras@utsc.utoronto.ca (416-208-4794)

Supervisor of Studies: S. Damouras Email:
sdamouras@utsc.utoronto.ca (416-208-4794)

Program Objectives

This program provides training in the discipline of Statistics. Students are given a thorough grounding in the theory underlying statistical reasoning and learn the methodologies associated with current applications. A full set of courses on the theory and methodology of the discipline represent the core of the program. In addition students select one of two streams, each of which provides immediately useful, job-related skills. The program also prepares students for further study in Statistics and related fields.

The Quantitative Finance Stream focuses on teaching the computational, mathematical and statistical techniques associated with modern day finance. Students acquire a thorough understanding of the mathematical models that underlie financial modeling and the ability to implement these models in practical settings. This stream prepares students to work as quantitative analysts in the financial industry, and for further study in Quantitative Finance

The Statistical Machine Learning and Data Mining Stream focuses on applications of statistical theory and concepts to the discovery (or "learning") of patterns in massive data sets. This field is a recent development in statistics with wide applications in science and technology including computer vision, image understanding, natural language processing, medical diagnosis, and stock market analysis. This stream prepares students for direct employment in industry and government, and further study in Statistical Machine Learning.

Program Requirements

To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses.)

The first year requirements of the two streams are almost identical, except that the Quantitative Finance stream requires [MGEA02H3](#)/(ECMA04H3) while the Statistical Machine Learning and Data Mining stream requires [CSCA67H](#); these courses need not be taken in the first year. In the second year the two streams have considerable overlap. This structure makes it relatively easy for students to switch between the two streams as their interests in Statistics become better defined.

Note: There are courses on the St. George campus that can be taken to satisfy some of the requirements of the program. [STAB52H3](#), [STAB57H3](#) and [STAC67H3](#), however, must be taken at the University of Toronto Scarborough; no substitutes are permitted without permission of the program supervisor.

Core (7.5 credits)**1. Writing Requirement (0.5 credit) (*)**

One of: [ANTA01H3](#), [ANTA02H3](#), (CLAA02H3), (CTLA19H3), [CTLA01H3](#), [ENGA10H3](#), [ENGA11H3](#), [ENGB06H3](#), [ENGB07H3](#), [ENGB08H3](#), [ENGB09H3](#), [ENGB17H3](#), [ENGB19H3](#), [ENGB50H3](#), (ENGB51H3), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3), (HISA01H3), (HLTA01H3), [ACMA01H3](#), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

(*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (2.5 credits)

[CSCA08H3](#) Introduction to Computer Science I
[CSCA48H3](#) Introduction to Computer Science II
[MATA23H3](#) Linear Algebra I

One of:

Program Objectives

This program provides training in the discipline of Statistics. Students are given a thorough grounding in the theory underlying statistical reasoning and learn the methodologies associated with current applications. A full set of courses on the theory and methodology of the discipline represent the core of the program. In addition students select one of two streams, each of which provides immediately useful, job-related skills. The program also prepares students for further study in Statistics and related fields.

The Quantitative Finance Stream focuses on teaching the computational, mathematical and statistical techniques associated with modern day finance. Students acquire a thorough understanding of the mathematical models that underlie financial modeling and the ability to implement these models in practical settings. This stream prepares students to work as quantitative analysts in the financial industry, and for further study in Quantitative Finance

The Statistical Machine Learning and Data Mining Stream focuses on applications of statistical theory and concepts to the discovery (or "learning") of patterns in massive data sets. This field is a recent development in statistics with wide applications in science and technology including computer vision, image understanding, natural language processing, medical diagnosis, and stock market analysis. This stream prepares students for direct employment in industry and government, and further study in Statistical Machine Learning.

Program Requirements

To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses.)

The first year requirements of the two streams are almost identical, except that the Quantitative Finance stream requires [MGEA02H3](#)/(ECMA04H3) while the Statistical Machine Learning and Data Mining stream requires [CSCA67H](#); these courses need not be taken in the first year. In the second year the two streams have considerable overlap. This structure makes it relatively easy for students to switch between the two streams as their interests in Statistics become better defined.

Note: There are courses on the St. George campus that can be taken to satisfy some of the requirements of the program. [STAB52H3](#), [STAB57H3](#) and [STAC67H3](#), however, must be taken at the University of Toronto Scarborough; no substitutes are permitted without permission of the program supervisor.

Core (7.5 credits)**1. Writing Requirement (0.5 credit) (*)**

One of: [ANTA01H3](#), [ANTA02H3](#), (CLAA02H3), (CTLA19H3), [CTLA01H3](#), [ENGA10H3](#), [ENGA11H3](#), [ENGB06H3](#), [ENGB07H3](#), [ENGB08H3](#), [ENGB09H3](#), [ENGB17H3](#), [ENGB19H3](#), [ENGB50H3](#), (ENGB51H3), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3), (HISA01H3), (HLTA01H3), [ACMA01H3](#), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

(*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (2.5 credits)

[CSCA08H3](#) Introduction to Computer Science I
[CSCA48H3](#) Introduction to Computer Science II
[MATA23H3](#) Linear Algebra I

One of:

[MATA31H3](#)* Calculus I for Mathematical Sciences
[MATA30H3](#) Calculus I for Biological or Physical Sciences

One of:

[MATA37H3](#)* Calculus II for Mathematical Sciences
[MATA36H3](#) Calculus II for Physical Sciences

(* [MATA31H3](#) and [MATA37H3](#) are recommended; the latter requires the former.

3. B-level courses (2.5 credits)

[MATB24H3](#) Linear Algebra II
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB61H3](#) Linear Programming and Optimization
[STAB52H3](#) Introduction to Probability
[STAB57H3](#) Introduction to Statistics

4. C-level courses (1.5 credits)

[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[STAC62H3](#) Stochastic Processes
[STAC67H3](#) Regression Analysis

5. D-level courses (0.5 credit)

[STAD37H3](#) Multivariate Analysis

A. Quantitative Finance Stream

This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach

7. Additional B-level courses (2.0 credits)

[ACTB40H3](#) Fundamentals of Investment and Credit
[MATB42H3](#) Techniques of Calculus of Several Variables II
[MATB44H3](#) Differential Equations I
[STAB41H3](#) Financial Derivatives

8. Additional Upper Level courses (3.0 credits)

[MATC46H3](#) Differential Equations II
[STAC70H3](#) Statistics and Finance I
[STAD57H3](#) Time Series Analysis
[STAD70H3](#) Statistics and Finance II

Two of:

APM462H1 Nonlinear Optimization
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[MATC37H3](#) Introduction to Real Analysis
[STAC51H3](#) Categorical Data Analysis
[STAC58H3](#) Statistical Inference
[STAC63H3](#) Probability Models
[STAD68H3](#) Advanced Machine Learning and Data Mining
[STAD94H3](#) Statistics Project

Note: Students enrolled in this stream should also consider taking complementary courses in economics and finance (e.g. [MGEA06H3](#)/(ECMA06H3), [MGEB02H3](#)/(ECMB02H3), [MGEB06H3](#)/(ECMB06H3), [MGEC72H3](#)/(ECMC49H3)), or a Minor in Economics for Management Studies.

B. Statistical Machine Learning and Data Mining Stream

This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)

[CSCA67H3](#) or [MATA67H3](#) Discrete Mathematics]

7. Additional B-level courses (1.0 credit)

Two of:

[CSCB07H3](#) Software Design
[CSCB20H3](#) Introduction to Databases and Web Applications

[MATA31H3](#)* Calculus I for Mathematical Sciences
[MATA30H3](#) Calculus I for Physical Sciences

One of:

[MATA37H3](#)* Calculus II for Mathematical Sciences
[MATA36H3](#) Calculus II for Physical Sciences

(* [MATA31H3](#) and [MATA37H3](#) are recommended; the latter requires the former.

3. B-level courses (2.5 credits)

[MATB24H3](#) Linear Algebra II
[MATB41H3](#) Techniques of the Calculus of Several Variables I
[MATB61H3](#) Linear Programming and Optimization
[STAB52H3](#) Introduction to Probability
[STAB57H3](#) Introduction to Statistics

4. C-level courses (1.5 credits)

[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[STAC62H3](#) Stochastic Processes
[STAC67H3](#) Regression Analysis

5. D-level courses (0.5 credit)

[STAD37H3](#) Multivariate Analysis

A. Quantitative Finance Stream

This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach

7. Additional B-level courses (2.0 credits)

[ACTB40H3](#) Fundamentals of Investment and Credit
[MATB42H3](#) Techniques of Calculus of Several Variables II
[MATB44H3](#) Differential Equations I
[STAB41H3](#) Financial Derivatives

8. Additional Upper Level courses (3.0 credits)

[MATC46H3](#) Differential Equations II
[STAC70H3](#) Statistics and Finance I
[STAD57H3](#) Time Series Analysis
[STAD70H3](#) Statistics and Finance II

Two of:

APM462H1 Nonlinear Optimization
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[MATC37H3](#) Introduction to Real Analysis
[STAC51H3](#) Categorical Data Analysis
[STAC58H3](#) Statistical Inference
[STAC63H3](#) Probability Models
[STAD68H3](#) Advanced Machine Learning and Data Mining
[STAD94H3](#) Statistics Project

Note: Students enrolled in this stream should also consider taking complementary courses in economics and finance (e.g. [MGEA06H3](#)/(ECMA06H3), [MGEB02H3](#)/(ECMB02H3), [MGEB06H3](#)/(ECMB06H3), [MGEC72H3](#)/(ECMC49H3)), or a Minor in Economics for Management Studies.

B. Statistical Machine Learning and Data Mining Stream

This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)

[CSCA67H3](#) or [MATA67H3](#) Discrete Mathematics]

7. Additional B-level courses (1.0 credit)

Two of:

[CSCB07H3](#) Software Design
[CSCB20H3](#) Introduction to Databases and Web Applications

[CSCB36H3](#) Introduction to the Theory of Computation
[CSCB63H3](#) Design and Analysis of Data Structures

8. Additional Upper Level courses (4.0 credits)

[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[STAC58H3](#) Statistical Inference
[STAD68H3](#) Advanced Machine Learning and Data Mining

Five of: *

Any C or D-level CSC, MAT or STA courses (excluding [STAD29H3](#)), three of which must be STA courses.

(*) Some of the courses on this list have prerequisites that are not included in this program; in choosing courses to satisfy this requirement, check the prerequisites carefully and plan accordingly.

[CSCB36H3](#) Introduction to the Theory of Computation
[CSCB63H3](#) Design and Analysis of Data Structures

8. Additional Upper Level courses (4.0 credits)

[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[STAC58H3](#) Statistical Inference
[STAD68H3](#) Advanced Machine Learning and Data Mining

Five of: *

Any C or D-level CSC, MAT or STA courses (excluding [STAD29H3](#)), three of which must be STA courses.

(*) Some of the courses on this list have prerequisites that are not included in this program; in choosing courses to satisfy this requirement, check the prerequisites carefully and plan accordingly.

Program notes/tables

Program: SCMAJ2289 - Compare

Code	SCMAJ2289	SCMAJ2289
Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	Statistics	Statistics
Title	MAJOR PROGRAM IN STATISTICS (SCIENCE)	MAJOR PROGRAM IN STATISTICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca</i></p> <p><i>Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year.</i> ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB09H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HLTA01H3), ACMA01H3, (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p> <p>Program Requirements This program requires 8.0 full credits.</p> <p>1. A-level courses MATA23H3 Linear Algebra I CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences] MATA30H3 Calculus I for [Biological and Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences*] MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences*] *The sequence MATA31H3 and MATA37H3 is recommended. MATA31H3 is the pre-requisite for MATA37H3.</p> <p>2. B-level courses MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II STAB52H3 An Introduction to Probability* STAB57H3 An Introduction to Statistics*</p> <p>Upper-level courses STAC67H3 Regression Analysis* Four of: any C- or D-level (or 300-400 on St. George) STA courses, except STAD29H3 Two of: ACTB40H3, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses * STAB52H3, STAB57H3, STAC67H3 - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor.</p>	<p><i>Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca</i></p> <p><i>Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year.</i> ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB09H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HLTA01H3), ACMA01H3, (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p> <p>Program Requirements This program requires 8.0 full credits.</p> <p>1. A-level courses MATA23H3 Linear Algebra I CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences] MATA30H3 Calculus I for Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences*] MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences*] *The sequence MATA31H3 and MATA37H3 is recommended. MATA31H3 is the pre-requisite for MATA37H3.</p> <p>2. B-level courses MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II STAB52H3 An Introduction to Probability* STAB57H3 An Introduction to Statistics*</p> <p>Upper-level courses STAC67H3 Regression Analysis* Four of: any C- or D-level (or 300-400 on St. George) STA courses, except STAD29H3 Two of: ACTB40H3, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses * STAB52H3, STAB57H3, STAC67H3 - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor.</p>

Program notes/tables

Program: SCMIN2289 - Compare

Code	SCMIN2289	SCMIN2289
Owning Organizations	MSCSC,STA	MSCSC,STA
Sections	Statistics	Statistics
Title	MINOR PROGRAM IN STATISTICS (SCIENCE)	MINOR PROGRAM IN STATISTICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca</i></p> <p>Program Requirements This program requires 4.0 full credits.</p> <p>First Year (2.0 credits) [CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences] MATA23H3 Linear Algebra I [MATA30H3 Calculus I for Biological and Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences] and [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences.]</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The sequence MATA31H3 and MATA37H3 is recommended. 2. MATA31H3 is the pre-requisite for MATA37H3. <p>Second Year (1.0 credit) STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics</p> <p>Third and Fourth Year (1.0 credit) STAC67H3 Regression Analysis</p> <p>In addition 0.5 credits must be chosen from any C- or D-level STA course but not STAD29H3.</p>	<p><i>Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca</i></p> <p>Program Requirements This program requires 4.0 full credits.</p> <p>First Year (2.0 credits) [CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences] MATA23H3 Linear Algebra I [MATA30H3 Calculus I for Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences] and [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences.]</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. The sequence MATA31H3 and MATA37H3 is recommended. 2. MATA31H3 is the pre-requisite for MATA37H3. <p>Second Year (1.0 credit) STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics</p> <p>Third and Fourth Year (1.0 credit) STAC67H3 Regression Analysis</p> <p>In addition 0.5 credits must be chosen from any C- or D-level STA course but not STAD29H3.</p>

Program notes/tables

Program: SCSPE0133 - Compare

Code	SCSPE0133	SCSPE0133
Owning Organizations	MGT, MGTEC	MGT, MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca

This program will provide a specialization for those wishing for a substantial component of Economics in a Management degree leading to a B.B.A. The program which has a co-op option combines academic studies in economics and management with work experience in public and private enterprises. It is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills given by knowledge of economic theory. For information on work terms please see the [Co-operative Programs](#) section of this *Calendar*.

Program Requirements

The Specialist Program in Economics for Management Studies requires the completion of 17.0 to 18.0 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. 8.5 full credits in Economics for Management Studies:

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II
[MGEC02H3](#)/(ECMC02H3) Topics in Price Theory
[MGEC06H3](#)/(ECMC06H3) Topics in Macroeconomics Theory
[MGEC11H3](#)/(ECMC11H3) Introduction to Regression Analysis
[MGED02H3](#)/(ECMD13H3) Advanced Microeconomic Theory
[MGED06H3](#)/(ECMD14H3) Advanced Macroeconomic Theory
[MGED11H3](#)/(ECMD10H3) Theory and Practice of Regression Analysis
[MGED50H3](#)/(ECMD50H3) Workshop in Economic Research, and two additional full credits in Economics for Management Studies including at least one at the C-level [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)].

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#)] strongly recommended, or [MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H3/A37H3].

3. (7.0 to 8.0 credits, depending on the combination of courses completed):

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or [MGTA01H3](#)/(MGTA03H3) and [MGTA02H3](#)/(MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca

This program will provide a specialization for those wishing for a substantial component of Economics in a Management degree leading to a B.B.A. The program which has a co-op option combines academic studies in economics and management with work experience in public and private enterprises. It is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills given by knowledge of economic theory. For information on work terms please see the [Co-operative Programs](#) section of this *Calendar*.

Program Requirements

The Specialist Program in Economics for Management Studies requires the completion of 17.0 to 18.0 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. 8.5 full credits in Economics for Management Studies:

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II
[MGEC02H3](#)/(ECMC02H3) Topics in Price Theory
[MGEC06H3](#)/(ECMC06H3) Topics in Macroeconomics Theory
[MGEC11H3](#)/(ECMC11H3) Introduction to Regression Analysis
[MGED02H3](#)/(ECMD13H3) Advanced Microeconomic Theory
[MGED06H3](#)/(ECMD14H3) Advanced Macroeconomic Theory
[MGED11H3](#)/(ECMD10H3) Theory and Practice of Regression Analysis
[MGED50H3](#)/(ECMD50H3) Workshop in Economic Research, and two additional full credits in Economics for Management Studies including at least one at the C-level [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)].

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#)] strongly recommended, or [MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H3/A37H3].

3. (7.0 to 8.0 credits, depending on the combination of courses completed):

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or [MGTA01H3](#)/(MGTA03H3) and [MGTA02H3](#)/(MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
[MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
[MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) Consulting and Contracting; New Ways of Work
[MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
[MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCSPE21413 - Compare

Code	SCSPE21413	SCSPE21413
Owning Organizations	MG, MGTEC	MG, MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>This program has two streams:</p> <ol style="list-style-type: none"> 1. The General stream is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics. 2. The Health Management stream is currently under review and enrolment in it has been suspended indefinitely. <p>This program also includes a Co-operative option. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.</p> <p>General Stream:</p> <p>Program Requirements This stream requires the completion of 13.5 to 14.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <ol style="list-style-type: none"> 1. (7.0 to 8.0 credits, depending on the combination of courses completed): MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3) MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach 2. (1.0 credit): MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3] 3. At least 0.5 credit of courses emphasizing strategic management, chosen from: MGSC01H3/(MGTC41H3) Corporate Strategy MGSC03H3/(MGTC42H3) Public Management MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations MGSC12H3/(MGTC35H3) Narrative and Management MGSC14H3/(MGTC59H3) Management Ethics MGSC20H3/(MGTC19H3) Consulting and Contracting & Freelancing MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship MGSD24H3/(NGSC24H3/MGTC39H3) New Venture Creation and Planning MGSC30H3/(MGTC31H3) The Legal Environment of Business I 4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II 	
	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>This program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics. It also includes a Co-operative option. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.</p> <p>Program Requirements This program requires the completion of 13.5 to 14.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <ol style="list-style-type: none"> 1. (7.0 to 8.0 credits, depending on the combination of courses completed): MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3) MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach 2. (1.0 credit): MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3] 3. At least 0.5 credit of courses emphasizing strategic management, chosen from: MGSC01H3/(MGTC41H3) Corporate Strategy MGSC03H3/(MGTC42H3) Public Management MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations MGSC12H3/(MGTC35H3) Narrative and Management MGSC14H3/(MGTC59H3) Management Ethics MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship MGSD24H3/(NGSC24H3/MGTC39H3) New Venture Creation and Planning MGSC30H3/(MGTC31H3) The Legal Environment of Business I 4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II 	

[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II
1 full credit of C-level Economics for Management Studies courses [excluding [MGE91H3](#)/(ECMC91H3), [MGE92H3](#)/(ECMC92H3), [MGE93H3](#)/(ECMC93H3)]

5. 1.0 credit of D-level Management or Economic courses.

Health Management Stream: Enrolment in the Health Management stream has been suspended indefinitely.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

1 full credit of C-level Economics for Management Studies courses [excluding [MGE91H3](#)/(ECMC91H3), [MGE92H3](#)/(ECMC92H3), [MGE93H3](#)/(ECMC93H3)]

5. 1.0 credit of D-level Management or Economic courses.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCSPE2432F - Compare

Code	SCSPE2432F	SCSPE2432F
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i>	<i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i>

This Program **which** has a co-op option builds on the core of the Specialist in Management Program and offers a deeper and wider coverage of Finance topics. The Program courses will equip students with a comprehensive understanding of financial issues and concepts, and with a firm mastery of methodologies and problem solving skills required in modern-day finance.

Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or
 [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or
 [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#) strongly recommended, or
[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
[MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
[MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

4. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach

This Program **also** has a co-op option; **and** builds on the core of the Specialist in Management Program and offers a deeper and wider coverage of Finance topics. The Program courses will equip students with a comprehensive understanding of financial issues and concepts, and with a firm mastery of methodologies and problem solving skills required in modern-day finance.

Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or
 [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or
 [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#) strongly recommended, or
[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting and Contracting; New Ways of Work
[MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
[MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

4. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach

[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and
 1 full credit of C-level Economics for Management Studies courses
 [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)]

5. (1.0 credit):

[MGFC30H3](#)/(MGTC71H3) Introduction to Derivative Markets
[MGFD10H3](#)/(MGTD75H3) Investments

6. At least 2.0 full credits from:

[MGEC71H3](#)/(ECMC48H3) Money and Banking
[MGFC20H3](#)/(MGTC70H3) Personal Financial Management
[MGFC50H3](#)/(MGTC76H3) International Financial Management
[MGFC60H3](#)/(MGTC77H3) Financial Statement Analysis & Security
 Valuation
[MGFD30H3](#)/(MGTD78H3) Risk Management
[MGFD40H3](#)/(MGTD73H3) Investor Psychology & Behavioural Finance
[MGFD50H3](#)/(MGTD72H3) Mergers & Acquisitions: Theory & Practice
[MGFD60H3](#)/(MGTD77H3) Financial Modelling & Trading Strategies
[MGFD70H3](#)/(MGTD71H3) Advanced Financial Management

NOTE: In selecting options and electives, students should refer to the
 guidelines for program breadth and depth found in the [Degree
 Requirements](#) section of this *Calendar*.

[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and
 1 full credit of C-level Economics for Management Studies courses
 [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)]

5. (1.0 credit):

[MGFC30H3](#)/(MGTC71H3) Introduction to Derivative Markets
[MGFD10H3](#)/(MGTD75H3) Investments

6. At least 2.0 full credits from:

[MGEC71H3](#)/(ECMC48H3) Money and Banking
[MGFC20H3](#)/(MGTC70H3) Personal Financial Management
[MGFC50H3](#)/(MGTC76H3) International Financial Management
[MGFC60H3](#)/(MGTC77H3) Financial Statement Analysis & Security
 Valuation
[MGFD15H3](#) Special Topics in Finance: Private Equity
[MGFD30H3](#)/(MGTD78H3) Risk Management
[MGFD40H3](#)/(MGTD73H3) Investor Psychology & Behavioural Finance
[MGFD50H3](#)/(MGTD72H3) Mergers & Acquisitions: Theory & Practice
[MGFD60H3](#)/(MGTD77H3) Financial Modelling & Trading Strategies
[MGFD70H3](#)/(MGTD71H3) Advanced Financial Management

NOTE: In selecting options and electives, students should refer to the
 guidelines for program breadth and depth found in the [Degree
 Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCSPE2432H - Compare

Code	SCSPE2432H	SCSPE2432H
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT AND HUMAN RESOURCES (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT AND HUMAN RESOURCES (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Academic Director: S. Ahmed *Email:* mgmtss@utsc.utoronto.ca
 This Program which has a co-op option is designed to give students a broad exposure to all functional areas of Management as well as specialization in the area of Human Resource Management (HRM). HRM is an area that encompasses topics such as recruitment and selection, performance management, compensation, and industrial relations. By taking a B.B.A. with a specialist in HRM, you will be qualified to work in any area of Human Resource Management, to take a graduate degree in HRM (potentially with advance standing), and you will be well prepared for the CHRP certification exam required by many organizations for upper-level HR positions. In order to qualify for CHRP certification, you must maintain an average of at least 70% across the 9 courses required by CHRP and at least 65% in each of those 9 courses.

Academic Director: S. Ahmed *Email:* mgmtss@utsc.utoronto.ca
 This Program also has a co-op option and is designed to give students a broad exposure to all functional areas of Management as well as specialization in the area of Human Resource Management (HRM). HRM is an area that encompasses topics such as recruitment and selection, performance management, compensation, and industrial relations. By taking a B.B.A. with a specialist in HRM, you will be qualified to work in any area of Human Resource Management, to take a graduate degree in HRM (potentially with advance standing), and you will be well prepared for the CHRP certification exam required by many organizations for upper-level HR positions. In order to qualify for CHRP certification, you must maintain an average of at least 70% across the 9 courses required by CHRP and at least 65% in each of those 9 courses.

By completing this Specialist Program in Management and Human Resources, you will cover the nine required CHRP courses.

By completing this Specialist Program in Management and Human Resources, you will cover the nine required CHRP courses.

Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):

- [MGMA01H3](#)/(MGTB04H3) Principles of Marketing
- [MGTA05H3](#) Foundations of Business Management or [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
- [MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
- [MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
- [MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
- [MGFB10H3](#)/(MGTB09H3) Principles of Finance
- [MGHB02H3](#) Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
- [MGHB12H3](#)/(MGTC22H3) Human Resource Management
- [MGMB01H3](#)/(MGTC05H3) Marketing Management
- [MGFC10H3](#)/(MGTC09H3) Intermediate Finance
- [MGHC02H3](#)/(MGTC90H3) Management Skills
- [MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
- [MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

1. (7.0 to 8.0 credits, depending on the combination of courses completed):

- [MGMA01H3](#)/(MGTB04H3) Principles of Marketing
- [MGTA05H3](#) Foundations of Business Management or [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
- [MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#) Management Communications for Co-op or (MGTC36H3)]
- [MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
- [MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
- [MGFB10H3](#)/(MGTB09H3) Principles of Finance
- [MGHB02H3](#) Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
- [MGHB12H3](#)/(MGTC22H3) Human Resource Management
- [MGMB01H3](#)/(MGTC05H3) Marketing Management
- [MGFC10H3](#)/(MGTC09H3) Intermediate Finance
- [MGHC02H3](#)/(MGTC90H3) Management Skills
- [MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
- [MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):

- [[MATA32H3](#) and [MATA33H3](#)] strongly recommended, or [[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H/A37H3]

2. (1.0 credit):

- [[MATA32H3](#) and [MATA33H3](#)] strongly recommended, or [[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:

- [MGSC01H3](#)/(MGTC41H3) Corporate Strategy
- [MGSC03H3](#)/(MGTC42H3) Public Management
- [MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
- [MGSC12H3](#)/(MGTC35H3) Narrative and Management
- [MGSC14H3](#)/(MGTC59H3) Management Ethics
- [MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
- [MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
- [MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:

- [MGSC01H3](#)/(MGTC41H3) Corporate Strategy
- [MGSC03H3](#)/(MGTC42H3) Public Management
- [MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
- [MGSC12H3](#)/(MGTC35H3) Narrative and Management
- [MGSC14H3](#)/(MGTC59H3) Management Ethics
- [MGSC20H3](#)/(MGTC19H3) Consulting and Contracting: New Ways of Work
- [MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
- [MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

4. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

5. (3.0 credits):

[MGHC53H3](#)/(MGTC53H3) Introduction to Industrial Relations
[MGHD24H3](#)/(MGTD24H3) Occupational Health and Safety Management
[MGHD25H3](#)/(MGTD25H3) Human Resources Recruitment & Selection
[MGHD26H3](#)/(MGTD26H3) Training and Development
[MGHD27H3](#)/(MGTD27H3) Human Resources Planning and Strategy
[MGHD28H3](#)/(MGTD28H3) Compensation

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

4. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

5. (3.0 credits):

[MGHC53H3](#)/(MGTC53H3) Introduction to Industrial Relations
[MGHD24H3](#)/(MGTD24H3) Occupational Health and Safety Management
[MGHD25H3](#)/(MGTD25H3) Human Resources Recruitment & Selection
[MGHD26H3](#)/(MGTD26H3) Training and Development
[MGHD27H3](#)/(MGTD27H3) Human Resources Planning and Strategy
[MGHD28H3](#)/(MGTD28H3) Compensation

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCSPE2432M - Compare

Code	SCSPE2432M	SCSPE2432M
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>The Specialist Program in Management and Marketing which has a Co-op option gives students the perspective of the overall organization and beyond. In addition to the company focus, Marketing also ensures that students take an external orientation by having an in-depth understanding of the competition and the consumer. While developing a good understanding of all the issues involved in developing marketing strategy, the student will learn to implement the tools of marketing tactics.</p>	<p><i>Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca</i></p> <p>The Specialist Program in Management and Marketing also has a Co-op option and gives students the perspective of the overall organization and beyond. In addition to the company focus, Marketing also ensures that students take an external orientation by having an in-depth understanding of the competition and the consumer. While developing a good understanding of all the issues involved in developing marketing strategy, the student will learn to implement the tools of marketing tactics.</p>
Program Requirements	<p>The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed):</p> <p>MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)] MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit):</p> <p>[MATA32H3 and MATA33H3] strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]</p> <p>3. At least 0.5 credit of courses emphasizing strategic management, chosen from:</p> <p>MGSC01H3/(MGTC41H3) Corporate Strategy MGSC03H3/(MGTC42H3) Public Management MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations MGSC12H3/(MGTC35H3) Narrative and Management MGSC14H3/(MGTC59H3) Management Ethics MGSC20H3/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship MGSD24H3/(MGSC24H3/MGTC39H3) New Venture Creation and Planning MGSC30H3/(MGTC31H3) The Legal Environment of Business I</p> <p>4. (4.0 credits):</p> <p>MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach</p>	<p>The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>1. (7.0 to 8.0 credits, depending on the combination of courses completed):</p> <p>MGMA01H3/(MGTB04H3) Principles of Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)] MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3/(MGTC22H3) Human Resource Management MGMB01H3/(MGTC05H3) Marketing Management MGFC10H3/(MGTC09H3) Intermediate Finance MGHC02H3/(MGTC90H3) Management Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p> <p>2. (1.0 credit):</p> <p>[MATA32H3 and MATA33H3] strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]</p> <p>3. At least 0.5 credit of courses emphasizing strategic management, chosen from:</p> <p>MGSC01H3/(MGTC41H3) Corporate Strategy MGSC03H3/(MGTC42H3) Public Management MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations MGSC12H3/(MGTC35H3) Narrative and Management MGSC14H3/(MGTC59H3) Management Ethics MGSC20H3/(MGTC19H3) New Ways of Work: Consulting and Contracting: New Ways of Work MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship MGSD24H3/(MGSC24H3/MGTC39H3) New Venture Creation and Planning MGSC30H3/(MGTC31H3) The Legal Environment of Business I</p> <p>4. (4.0 credits):</p> <p>MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach</p>

[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and
 1 full credit of C-level Economics for Management Studies courses
 [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)].

5. 6 of the following courses (3.0 credits):

[MGMC01H3](#)/(MGTD07H3) Market Research
[MGMC02H3](#)/(MGTD13H3) Consumer Behaviour
[MGMC11H3](#)/(MGTC21H3) Product Management and Branding
[MGMC12H3](#)/(MGTC12H3) Advertising: From Theory to Practice
[MGMC13H3](#)/(MGTC13H3) Pricing Strategy
[MGMC14H3](#)/(MGTC14H3) Sales and Distribution Management
[MGMD01H3](#)/(MGTD30H3) Applied Marketing Models
[MGMD02H3](#)/(MGTC20H3) Judgement and Decision Making
[MGMD10H3](#) Special Topics in Marketing I
[MGMD11H3](#) Special Topics in Marketing II

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II and
 1 full credit of C-level Economics for Management Studies courses
 [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3),
[MGEC93H3](#)/(ECMC93H3)].

5. 6 of the following courses (3.0 credits):

[MGMC01H3](#)/(MGTD07H3) Market Research
[MGMC02H3](#)/(MGTD13H3) Consumer Behaviour
[MGMC11H3](#)/(MGTC21H3) Product Management and Branding
[MGMC12H3](#)/(MGTC12H3) Advertising: From Theory to Practice
[MGMC13H3](#)/(MGTC13H3) Pricing Strategy
[MGMC14H3](#)/(MGTC14H3) Sales and Distribution Management
[MGMD01H3](#)/(MGTD30H3) Applied Marketing Models
[MGMD02H3](#)/(MGTC20H3) Judgement and Decision Making
[MGMD10H3](#) Special Topics in Marketing I
[MGMD11H3](#) Special Topics in Marketing II

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCSPE24320 - Compare

Code	SCSPE24320	SCSPE24320
Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	Management	Management
Title	SPECIALIST PROGRAM IN STRATEGIC MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)	SPECIALIST PROGRAM IN STRATEGIC MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i>	<i>Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca</i>

This Program has two streams:

The **Management Strategy** stream is designed to give students a broad exposure to all functional areas of Management, as well as a solid grounding in Strategic Management, while providing a variety of elective courses to appeal to students interested in any one of the three sectors. It covers the direction and coordination of private sector, public sector, or non-profit sector organizations.

The **Entrepreneurship** stream is designed to provide students with the tools to work in a variety of self-employment or entrepreneur career paths, which include working in family businesses, start-ups, or as consultants. The program will allow for significant training of entrepreneurial skills and non-entrepreneurial skills.

Both streams have a non-co-op and a co-op component. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements

To complete the program, a student must meet the course requirements described below. The program requirements comprise a core of 12.5 to 13.5 credits common to both streams, and additional requirements which depend on the stream for a total of 15.0 to 16.0 credits for the Management Strategy stream and 16.0 to 17.0 credits for the Entrepreneurship stream.

Note: A single course may only be used once to fulfill one of the following requirements:

Core (12.5 to 13.5 credits):**1. (7.5 to 8.5 credits, depending on the combination of courses completed):**

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or
 [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#)
 Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or
 [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical
 Approach
 One additional half-credit (0.5) at the D-level in either Management or
 Economics for Management Studies courses

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#) strongly recommended, or
[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H3/A37H3]

3. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A
 Mathematical Approach

This Program has two streams:

The **Management Strategy** stream is designed to give students a broad exposure to all functional areas of Management, as well as a solid grounding in Strategic Management, while providing a variety of elective courses to appeal to students interested in any one of the three sectors. It covers the direction and coordination of private sector, public sector, or non-profit sector organizations.

The **Entrepreneurship** stream is designed to provide students with the tools to work in a variety of self-employment or entrepreneur career paths, which include working in family businesses, start-ups, or as consultants. The program will allow for significant training of entrepreneurial skills and non-entrepreneurial skills.

Both streams have a non-co-op and a co-op component. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements

To complete the program, a student must meet the course requirements described below. The program requirements comprise a core of 12.5 to 13.5 credits common to both streams, and additional requirements which depend on the stream for a total of 15.0 to 16.0 credits for the Management Strategy stream and 16.0 to 17.0 credits for the Entrepreneurship stream.

Note: A single course may only be used once to fulfill one of the following requirements:

Core (12.5 to 13.5 credits):**1. (7.5 to 8.5 credits, depending on the combination of courses completed):**

[MGMA01H3](#)/(MGTB04H3) Principles of Marketing
[MGTA05H3](#) Foundations of Business Management or
 [([MGTA01H3](#)/MGTA03H3) and ([MGTA02H3](#)/MGTA04H3)]
[MGTA35H3](#) Management Communications for non Co-op or [MGTA36H3](#)
 Management Communications for Co-op or (MGTC36H3)]
[MGAB01H3](#)/(MGTB05H3) Introductory Financial Accounting I
[MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting II
[MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
[MGFB10H3](#)/(MGTB09H3) Principles of Finance
[MGHB02H3](#) Managing People and Groups in Organizations or
 [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
[MGHB12H3](#)/(MGTC22H3) Human Resource Management
[MGMB01H3](#)/(MGTC05H3) Marketing Management
[MGFC10H3](#)/(MGTC09H3) Intermediate Finance
[MGHC02H3](#)/(MGTC90H3) Management Skills
[MGOC10H3](#)/(MGTC74H3) Analysis for Decision Making
[MGOC20H3](#)/(MGTC75H3) Operations Management: A Mathematical
 Approach
 One additional half-credit (0.5) at the D-level in either Management or
 Economics for Management Studies courses

2. (1.0 credit):

[MATA32H3](#) and [MATA33H3](#) strongly recommended, or
[MATA30H3](#)/A31H3 and [MATA35H3](#)/A36H3/A37H3]

3. (4.0 credits):

[MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A
 Mathematical Approach

[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II, and 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

Management Strategy Stream (2.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning

5. 1.0 credit from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management, or
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations

6. 0.5 credit from:

[MGEB32H3](#)/(ECMB36H3) Economics Aspects of Public Policy
[MGEC31H3](#)/(ECMC31H3) Economics of the Public Sector: Taxation
[MGEC32H3](#)/(ECMC32H3) Economics of the Public Sector: Expenditures
[MGEC43H3](#)/(ECMC43H3) Organization Strategies
[MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business II
[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning
[MGTC55H3](#) Planning & Budgeting for Public Institutions
[MGTC56H3](#) Educational Finance & Economics
[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGSD10H3](#)/(MGTD40H3) Knowledge Management
[MGSD30H3](#)/(MGTD45H3) Intellectual Property Law
[PPGC66H3](#) Public Policy Making

7. (0.5 credit):

[MGSD01H3](#)/(MGTD47H3) Senior Seminar in Strategic Management

Entrepreneurship Stream (3.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC12H3](#)/(MGTC35H3) Narratives on Management and Organization
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

5. (3.0 credits):

[MGFC20H3](#)/(MGTC70H3) Personal Financial Management
[MGHC52H3](#)/(MGTC52H3) Business Negotiation
[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC20H3](#)/(MGTC19H3) New Ways of Work: Consulting, Contracting & Freelancing
[MGSC26H3](#) Venture Capital

[MGEA06H3](#)/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
[MGEB02H3](#)/(ECMB02H3) Price Theory: A Mathematical Approach
[MGEB06H3](#)/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
[MGEB11H3](#)/(ECMB11H3) Quantitative Methods in Economics I
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics II, and 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

Management Strategy Stream (2.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) Consulting and Contracting: New Ways of Work
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning

5. 1.0 credit from:

[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management, or
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations

6. 0.5 credit from:

[MGEB32H3](#)/(ECMB36H3) Economics Aspects of Public Policy
[MGEC31H3](#)/(ECMC31H3) Economics of the Public Sector: Taxation
[MGEC32H3](#)/(ECMC32H3) Economics of the Public Sector: Expenditures
[MGED43H3](#)/(MGEC43H3) Organization Strategies
[MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC01H3](#)/(MGTC41H3) Corporate Strategy
[MGSC03H3](#)/(MGTC42H3) Public Management
[MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations
[MGSC12H3](#)/(MGTC35H3) Narrative and Management
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC20H3](#)/(MGTC19H3) Consulting and Contracting: New Ways of Work
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I
[MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business II
[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning
[MGTC55H3](#) Planning & Budgeting for Public Institutions
[MGTC56H3](#) Educational Finance & Economics
[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGSD10H3](#)/(MGTD40H3) Knowledge Management
[MGSD30H3](#)/(MGTD45H3) Intellectual Property Law
[PPGC66H3](#) Public Policy Making

7. (0.5 credit):

[MGSD01H3](#)/(MGTD47H3) Senior Seminar in Strategic Management

Entrepreneurship Stream (3.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

[MGSC12H3](#)/(MGTC35H3) Narratives on Management and Organization
[MGSC14H3](#)/(MGTC59H3) Management Ethics
[MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business I

5. (3.0 credits):

[MGFC20H3](#)/(MGTC70H3) Personal Financial Management
[MGHC52H3](#)/(MGTC52H3) Business Negotiation
[MGSB22H3](#)/(MGTC38H3) Entrepreneurship
[MGSC20H3](#)/(MGTC19H3) Consulting and Contracting: New Ways of Work
[MGSC26H3](#) Venture Capital

[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

[MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the [Degree Requirements](#) section of this *Calendar*.

Program notes/tables

Program: SCMIN1015 - Compare

Code	SCMIN1015	SCMIN1015
Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	Sociology	Sociology
Title	MINOR PROGRAM IN CULTURE, CREATIVITY, AND CITIES (ARTS)	MINOR PROGRAM IN CULTURE, CREATIVITY, AND CITIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>The Minor program in Culture, Creativity and Cities offers students an in-depth understanding of the relationship between culture and cities. The Minor is interdisciplinary in content and method. Through experiential learning, students will develop a suite of transferable skills in written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis.</p> <p><i>Program Advisor: Janet Roopnarinesingh janetr@utsc.utoronto.ca</i></p>	<p>The Minor program in Culture, Creativity and Cities offers students an in-depth understanding of the relationship between culture and cities. The Minor is interdisciplinary in content and method. Through experiential learning, students will develop a suite of transferable skills in written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis.</p> <p><i>Program Advisor: Janet Roopnarinesingh janetr@utsc.utoronto.ca</i></p>
Program Requirements	<p>This program requires the completion of 4.0 credits as follows:</p> <p>1. 0.5 credit from the following: ANTA02H3 Introduction to Anthropology: Society, Culture and Language GGRA02H3 The Geography of Global Processes MDSA01H3 Introduction to Media Studies MGTA01H3 Introduction to Management I MGTA02H3 Introduction to Management II SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II VPAA10H3 Introduction to Arts Management</p> <p>2. 0.5 credit in B-level Sociology courses: SOCB58H3 Sociology of Culture</p> <p>3. 1.0 credit from the following: CITB02H3 Foundations of City Studies ENGB37H3 Popular Literature and Mass Culture GGRB05H3 Urban Geography GGRB55H3 Cultural Geography MDSB03H3 Advertising and Consumer Culture SOCB44H3 Sociology of Cities and Urban Life VPAB05H3 Introduction to Contemporary Cultural Theory</p> <p>4. 0.5 credit in C-level Sociology courses: SOCC26H3 Sociology of Urban Cultural Policies</p> <p>5. 1.0 credit from the following: ENGC59H3 Geography and Regionalism in Literature ENGC83H3 Studies in World Cinema GGRC13H3 Urban Political Geography SOCC27H3 Sociology of Suburbs and Suburbanization SOCC44H3 Media and Society VPAC15H3 Cultural Policy</p> <p>6. 0.5 credit in D-level Sociology courses: SOCD51H3 Capstone Seminar in Culture, Creativity, and Cities</p>	<p>This program requires the completion of 4.0 credits as follows:</p> <p>1. 0.5 credit from the following: ANTA02H3 Introduction to Anthropology: Society, Culture and Language GGRA02H3 The Geography of Global Processes MDSA01H3 Introduction to Media Studies MGTA01H3 Introduction to Business MGTA02H3 Managing the Business Organization SOCA01H3 Introduction to Sociology I SOCA02H3 Introduction to Sociology II VPAA10H3 Introduction to Arts Management</p> <p>2. 0.5 credit in B-level Sociology courses: SOCB58H3 Sociology of Culture</p> <p>3. 1.0 credit from the following: CITB02H3 Foundations of City Studies ENGB37H3 Popular Literature and Mass Culture GGRB05H3 Urban Geography GGRB55H3 Cultural Geography MDSB03H3 Advertising and Consumer Culture SOCB44H3 Sociology of Cities and Urban Life VPAB05H3 Introduction to Contemporary Cultural Theory</p> <p>4. 0.5 credit in C-level Sociology courses: SOCC26H3 Sociology of Urban Cultural Policies</p> <p>5. 1.0 credit from the following: ENGC59H3 Geography and Regionalism in Literature ENGC83H3 Studies in World Cinema GGRC13H3 Urban Political Geography SOCC27H3 Sociology of Suburbs and Suburbanization SOCC44H3 Media and Society VPAC15H3 Cultural Policy</p> <p>6. 0.5 credit in D-level Sociology courses: SOCD51H3 Capstone Seminar in Culture, Creativity, and Cities</p>

Program notes/tables

Program: SCSPE1180 - Compare

Code	SCSPE1180	SCSPE1180
Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	Arts Management	Arts Management
Title	SPECIALIST PROGAM IN ARTS MANAGEMENT (ARTS)	SPECIALIST PROGAM IN ARTS MANAGEMENT (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Director:</i> S.L. Helwig (416-287-7160) <i>Email:</i> arts-management-program-director@utsc.utoronto.ca</p> <p>Arts Management is designed for students with an interest both in the arts and in the business of the arts. It provides students with a solid grounding in the knowledge and skills necessary for fulfilling professional careers in producing, presenting and exhibiting organizations (theatres, opera companies, orchestras, dance companies, galleries, museums), arts councils, arts service organizations, government, and many other related areas, or for graduate studies in disciplines such as Arts Management, Cultural and Public Policy, Arts Education and Museum or Curatorial Studies.</p> <p>While a majority of the academic work in the program is based on the not-for-profit arts model, the skills that UTSC's arts management students develop are transferable skills: critical thinking, organizational development, marketing, fundraising, public relations and public policy can be applied to many fields, and graduates may eventually opt to work in for-profit cultural industries such as commercial music, film and television, or even non-arts sectors that require similar abilities. For further information, see www.utsc.utoronto.ca/artsmanagement/</p> <p>The Standard Stream of the program is designed to give students a broad and deep understanding of Arts Management at the undergraduate level through academic courses but without full field placements. This stream is well suited to students who have past or alternate practical experience in arts management.</p> <p>The Field Placement Stream of the program is designed to enhance the students' understanding of Arts Management through substantial exposure to its practice in a minimum of two 300-hour not-for-credit placements.</p> <p>Program Admission: Enrolment in the program is limited and entry is competitive. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, and demonstrated interest and potential ability in Arts Management as discerned through an interview. For the Standard Stream, students must have a minimum cumulative GPA of 2.5, both overall and in Arts Management-specific courses. For the Field Placement Stream, students must have a minimum cumulative GPA of 3.0, both overall and in Arts Management-specific courses.</p> <p>Program Requirements: This program requires the completion of a total of 15.0 credits. Students complete a core of 6.0 credits in Arts Management courses, 1.5 credits in Management courses, 6.0 credits in one or more arts discipline(s), and 1.5 credits specific to either the Standard Stream or the Field Placement Stream.</p> <p>Students must maintain a minimum cumulative grade point average (CGPA), both overall and in Arts Management-specific courses: 2.5 for the Standard Stream and 3.0 for the Field Placement Stream. Continuous consultation with the Program Director is strongly encouraged for all students in each year of their program.</p> <p>Core (13.5 credits)</p> <p>1. Arts Management Courses (6.0 credits) VPAA06H3 Visual and Performing Arts Management in the Digital Age VPAA10H3 Introduction to Arts Management VPAA12H3 Audience and Resource Development VPAB07H3 Equity & Diversity in Arts Organizations VPAB13H3 Financial Management for Arts Managers VPAB16H3 Managing and Leading in Cultural Organizations VPAB17H3 From Principles to Practices in Arts Management</p>	<p><i>Program Director:</i> S.L. Helwig (416-287-7160) <i>Email:</i> arts-management-program-director@utsc.utoronto.ca</p> <p>Arts Management is designed for students with an interest both in the arts and in the business of the arts. It provides students with a solid grounding in the knowledge and skills necessary for fulfilling professional careers in producing, presenting and exhibiting organizations (theatres, opera companies, orchestras, dance companies, galleries, museums), arts councils, arts service organizations, government, and many other related areas, or for graduate studies in disciplines such as Arts Management, Cultural and Public Policy, Arts Education and Museum or Curatorial Studies.</p> <p>While a majority of the academic work in the program is based on the not-for-profit arts model, the skills that UTSC's arts management students develop are transferable skills: critical thinking, organizational development, marketing, fundraising, public relations and public policy can be applied to many fields, and graduates may eventually opt to work in for-profit cultural industries such as commercial music, film and television, or even non-arts sectors that require similar abilities. For further information, see www.utsc.utoronto.ca/artsmanagement/</p> <p>The Standard Stream of the program is designed to give students a broad and deep understanding of Arts Management at the undergraduate level through academic courses but without full field placements. This stream is well suited to students who have past or alternate practical experience in arts management.</p> <p>The Field Placement Stream of the program is designed to enhance the students' understanding of Arts Management through substantial exposure to its practice in a minimum of two 300-hour not-for-credit placements.</p> <p>Program Admission: Enrolment in the program is limited and entry is competitive. Admissions are granted on the basis of applicants' academic performance, background in one or more of the arts, and demonstrated interest and potential ability in Arts Management as discerned through an interview. For the Standard Stream, students must have a minimum cumulative GPA of 2.5, both overall and in Arts Management-specific courses. For the Field Placement Stream, students must have a minimum cumulative GPA of 3.0, both overall and in Arts Management-specific courses.</p> <p>Program Requirements: This program requires the completion of a total of 15.0 credits. Students complete a core of 6.0 credits in Arts Management courses, 1.5 credits in Management courses, 6.0 credits in one or more arts discipline(s), and 1.5 credits specific to either the Standard Stream or the Field Placement Stream.</p> <p>Students must maintain a minimum cumulative grade point average (CGPA), both overall and in Arts Management-specific courses: 2.5 for the Standard Stream and 3.0 for the Field Placement Stream. Continuous consultation with the Program Director is strongly encouraged for all students in each year of their program.</p> <p>Core (13.5 credits)</p> <p>1. Arts Management Courses (6.0 credits) VPAA06H3 Visual and Performing Arts Management in the Digital Age VPAA10H3 Introduction to Arts Management VPAA12H3 Audience and Resource Development VPAB07H3 Equity & Diversity in Arts Organizations VPAB13H3 Financial Management for Arts Managers VPAB16H3 Managing and Leading in Cultural Organizations VPAB17H3 From Principles to Practices in Arts Management</p>

[VPAC13H3](#) Planning and Project Management in the Arts and Cultural Sector

[VPAC15H3](#) Cultural Policy

[VPAC16H3](#) Legal and Human Resource Issues in Arts Management

[VPAC17H3](#) Arts Marketing *OR* [VPAC18H3](#) Fundraising and Development in the Arts]

[VPAD12H3](#) Senior Seminar in Arts Management

2. Management Courses (1.5 credits)

[MGTA01H3](#)/(MGTA03H3) Introduction to Management I

[MGTA02H3](#)/(MGTA04H3) Introduction to Management II

0.5 credit from Management or Economics at the C- or D- level (unless an alternative is formally approved in advance by the Arts Management Program Director)

Note: Arts Management students have access to the following Management courses via ROSI: [MGHC23H3](#), [MGMC30H3](#), MGTC33H3, MGTC44H3 and MGTD45H3. Arts Management students interested in other Management courses must approach the Arts Management Program Director early in the enrolment period to discuss suitability and to request access. Appropriate prerequisite knowledge is required for all Management courses.

3. Arts Courses (6.0 credits)

[Six full credits from within the Major program in one of the artistic disciplines within the Department of Arts, Culture and Media (Art History, Music and Culture, Studio and Theatre & Performance Studies). At least one full credit of these must be at the C- or D-level.] *OR*

[With the prior written approval of the Arts Management Program Director, students may tailor a coherent group of courses to accommodate their special interests and particular career goals. At least one full credit must be at the C- or D-level.]

Note: Because the completion of a Major program in a chosen artistic field is particularly valuable for students contemplating graduate studies and certain careers related to that subject, students may wish to add the Major Subject POSt and take additional arts courses to fulfil the Major requirement. Alternatively, one or more Minor program(s) may be valuable in certain fields of work and further studies.

A. Standard Stream

In addition to the Core requirements above, students must complete an additional 1.5 credits:

4. (1.5 credits)

[VPAB05H3](#) Introduction to Contemporary Cultural Theory

Two courses (1.0 credit) from the following:

[VPAB15H3](#) Arts Education and Outreach

[VPAC17H3](#) Arts Marketing *OR* [VPAC18H3](#) Fundraising and

Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]

[VPAC21H3](#) Special Topics in Arts Management I

[VPAC22H3](#) Special Topics in Arts Management II

[VPAD07H3](#) Agency & Pluralism in Social & Cultural Transformations

[VPAD14H3](#) Independent Studies in Arts Management

Note: one of the D-level choices is required if a D-level course is not taken as a part of section 2 (Management Courses) or section 3 (Arts Courses).

B. Field Placement Stream

4. Work Term Placements

In addition to the Core requirements above, students must complete a minimum of two 300-hour not-for-credit work term placements:

Field Placement I

Field Placement II

5. (1.5 credits)

[ACMC01H3](#) ACMEE Applied Practice I (to be taken concurrently with, or after, Field Placement I)

[VPAC13H3](#) Planning and Project Management in the Arts and Cultural Sector

[VPAC15H3](#) Cultural Policy

[VPAC16H3](#) Legal and Human Resource Issues in Arts Management

[VPAC17H3](#) Arts Marketing *OR* [VPAC18H3](#) Fundraising and Development in the Arts]

[VPAD12H3](#) Senior Seminar in Arts Management

2. Management Courses (1.5 credits)

[MGTA01H3](#)/(MGTA03H3) Introduction to Business

[MGTA02H3](#)/(MGTA04H3) Managing the Business Organization

0.5 credit from Management or Economics at the C- or D- level (unless an alternative is formally approved in advance by the Arts Management Program Director)

Note: Arts Management students have access to the following Management courses via ROSI: [MGHC23H3](#), [MGMC30H3](#), MGTC33H3, MGTC44H3 and MGTD45H3. Arts Management students interested in other Management courses must approach the Arts Management Program Director early in the enrolment period to discuss suitability and to request access. Appropriate prerequisite knowledge is required for all Management courses.

3. Arts Courses (6.0 credits)

[Six full credits from within the Major program in one of the artistic disciplines within the Department of Arts, Culture and Media (Art History, Music and Culture, Studio and Theatre & Performance Studies). At least one full credit of these must be at the C- or D-level.] *OR*

[With the prior written approval of the Arts Management Program Director, students may tailor a coherent group of courses to accommodate their special interests and particular career goals. At least one full credit must be at the C- or D-level.]

Note: Because the completion of a Major program in a chosen artistic field is particularly valuable for students contemplating graduate studies and certain careers related to that subject, students may wish to add the Major Subject POSt and take additional arts courses to fulfil the Major requirement. Alternatively, one or more Minor program(s) may be valuable in certain fields of work and further studies.

A. Standard Stream

In addition to the Core requirements above, students must complete an additional 1.5 credits:

4. (1.5 credits)

[VPAB05H3](#) Introduction to Contemporary Cultural Theory

Two courses (1.0 credit) from the following:

[VPAB15H3](#) Arts Education and Outreach

[VPAC17H3](#) Arts Marketing *OR* [VPAC18H3](#) Fundraising and

Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]

[VPAC21H3](#) Special Topics in Arts Management I

[VPAC22H3](#) Special Topics in Arts Management II

[VPAD07H3](#) Agency & Pluralism in Social & Cultural Transformations

[VPAD14H3](#) Independent Studies in Arts Management

Note: one of the D-level choices is required if a D-level course is not taken as a part of section 2 (Management Courses) or section 3 (Arts Courses).

B. Field Placement Stream

4. Work Term Placements

In addition to the Core requirements above, students must complete a minimum of two 300-hour not-for-credit work term placements:

Field Placement I

Field Placement II

5. (1.5 credits)

[ACMC01H3](#) ACMEE Applied Practice I (to be taken concurrently with, or after, Field Placement I)

[ACMD01H3](#) ACMEE Applied Practice II (to be taken concurrently with, or after Field Placement II) 0.5 credit from the following:

[VPAB05H3](#) Introduction to Contemporary Cultural Theory
[VPAB15H3](#) Arts Education and Outreach
[VPAC17H3](#) Arts Marketing OR [VPAC18H3](#) Fundraising and Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]

[VPAC21H3](#) Special Topics in Arts Management I
[VPAC22H3](#) Special Topics in Arts Management II
[VPAD07H3](#) Agency & Pluralism in Social & Cultural Transformations
[VPAD14H3](#) Independent Studies in Arts Management

[ACMD02H3](#) ACMEE Applied Practice III (to be taken in connection with an optional "Field Placement III")

Courses in the first two years of the program

The first year of study would normally consist of 5.0 full credits (10 courses - five in each of the Fall and Winter semesters) including [VPAA10H3](#), [VPAA12H3](#), [MGTA01H3](#), [MGTA02H3](#), at least three courses from the "Arts Courses" section (including [ACMA01H3](#)), and electives (preferably including [ACMA02H3](#)). The second year of study would normally consist of five full credits (10 courses) including [VPAB05H3](#), (for students in the "Standard Stream"), [VPAB13H3](#), [VPAB16H3](#), [VPAB17H3](#), possibly [VPAB07H3](#), and B-level courses from the "Arts Courses" requirement described above.

[ACMD01H3](#) ACMEE Applied Practice II (to be taken concurrently with, or after Field Placement II) 0.5 credit from the following:

[VPAB05H3](#) Introduction to Contemporary Cultural Theory
[VPAB15H3](#) Arts Education and Outreach
[VPAC17H3](#) Arts Marketing OR [VPAC18H3](#) Fundraising and Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]

[VPAC21H3](#) Special Topics in Arts Management I
[VPAC22H3](#) Special Topics in Arts Management II
[VPAD07H3](#) Agency & Pluralism in Social & Cultural Transformations
[VPAD14H3](#) Independent Studies in Arts Management

[ACMD02H3](#) ACMEE Applied Practice III (to be taken in connection with an optional "Field Placement III")

Courses in the first two years of the program

The first year of study would normally consist of 5.0 full credits (10 courses - five in each of the Fall and Winter semesters) including [VPAA10H3](#), [VPAA12H3](#), [VPAA06H3](#), [MGTA01H3](#), [MGTA02H3](#), at least three courses from the "Arts Courses" section of the program requirements, and electives. [ACMB01H3](#) can be taken as one of the "Arts Courses" in the Winter semester of the first year, or during second year. The second year of study would normally consist of 5.0 full credits (10 courses) including [VPAB13H3](#), [VPAB16H3](#) and [VPAB17H3](#), [ACMB01H3](#) (if not already taken, B-level courses from the "Arts Courses" program requirement, and electives. Arts Management students are encouraged to consider [ACMB02H3](#) as one of their elective choices.

Program notes/tables

Program: SCMAJ15902 - Compare

Code	SCMAJ15902	SCMAJ15902
Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	Music and Culture	Music and Culture
Title	MAJOR PROGRAM IN MUSIC AND CULTURE (ARTS)	MAJOR PROGRAM IN MUSIC AND CULTURE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca</i>	<i>Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca</i>

Program Requirements

Students are required to complete eight (8.5) credits as follows:

1. [ACMA01H3](#) Exploring Key Questions in Humanities
[VPMA90H3](#) Materials of Music I
[VPMA93H3](#) Listening to Music
[VPMA99H3](#) Music of the World's Peoples
2. [VPMB82H3](#) Art Music in the Modern and Contemporary Eras
[VPMB83H3](#) Popular Music in the Modern and Contemporary Eras
[VPMB90H3](#) Materials of Music II
3. 0.5 credit chosen from the following courses:
[VPMB65H3](#) Music and Healing
[VPMB77H3](#) Music in Religion and Ritual
[VPMB78H3](#) Balinese Gamelan: Performance and Context
[VPMB79H3](#) Performing Arts of Asia
[VPMB75H3](#) Music in the World of Islam: Philosophy, Power and Politics
4. 2.0 credits chosen from the sequence [VPMB80H3](#) to [VPMB97H3](#). In exceptional circumstances, qualified students may substitute one half credit from [VPMD80H3](#) or [VPMD81H3](#).
5. [VPMD90H3](#) Critical Issues in Music and Culture
6. 2.0 credits in Performance. Students must choose the graded option for this credit.

Program notes/tables**Program Requirements**

Students are required to complete 8.0 credits as follows:

1. [VPMA93H3](#) Listening to Music
1.0 credit in Performance. Students must choose the graded option for this credit.
2. [ACMB01H3](#) Critical Reading, Thinking and Writing for ACM Programs
[VPMB82H3](#) Music in the Modern and Contemporary World
[VPMB88H3](#) Materials of Music I
[VPMB90H3](#) Materials of Music II
[VPMB99H3](#) Music of the World's Peoples
3. [VPMB88H3](#) Topics in Music and Culture
4. 3.5 additional credits in Music and Culture (VPM) courses, at least 1.5 of which must be at the C- or D-level. Students who count Performance courses toward this requirement must choose the graded option and are limited to 2.0 Performance credits in addition to the courses counted under requirement #1. Students are encouraged to develop depth of learning through study in one or two areas of focus described above.

Program: SCMAJNME - Compare

Code	SCMAJNME	SCMAJNME
Owning Organizations	NME,ACMSC	NME,ACMSC
Sections	New Media Studies	New Media Studies
Title	MAJOR (JOINT) PROGRAM IN NEW MEDIA STUDIES (ARTS)	MAJOR (JOINT) PROGRAM IN NEW MEDIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: 416-287-7184 Email: nme-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements</p> <p>Students must complete 9.0 full credits of which at least 2.0 must be at the C- or D-level, including:</p> <p>1. 1.0 credit:</p> <p>MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media</p> <p>2. 1.5 credits:</p> <p>MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>3. 0.5 additional credit in MDS courses</p> <p>4. 0.5 credit from the following:</p> <p>CSCA20H3 Computer Science for the Sciences VPAA06H3 Visual and Performing Arts Management in the Digital Age VPMC91H3 Introduction to Electronic Music VPMC97H3 Music, Technologies, Media VPSA62H3 Foundation Studies in Studio VPSA73H3 Video I VPSA74H3 Digital Studio I VPSB67H3 Photo I VPSB72H3 Digital Publishing VPSB75H3 Photo II VPSB76H3 Video II VPSB80H3 Digital Studio II VPSB86H3 Sculpture and Technology VPSB87H3 Documentary Photography VPSB88H3 Sound Art VPSB89H3 Digital Animation I VPSC52H3 Documentary Video VPSC70H3 Theory and Practice: New Media in Studio VPSC89H3 Digital Animation II</p> <p>Note: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).</p> <p>5. 4.5 credits from Centennial College:</p> <p><i>New Media Group 1.</i></p> <p>NMEA01H3 Digital Fundamentals NMEA02H3 Introduction to New Media Communications NMEA03H3 The Language of Design NMEA04H3 Interface Design, Navigation and Interaction I</p> <p><i>New Media Group 2.</i></p> <p>[Students will be eligible to enrol in these courses after successfully completing all courses in New Media Group 1]</p> <p>NMEB05H3 Interface Design, Navigation and Interaction II NMEB06H3 Project Development and Presentation NMEB08H3 Application Software for Interactive Media NMEB09H3 Sound Design NMEB10H3 Design for New Media</p> <p>6. 1.0 full credit:</p> <p>NMED01H3 New Media Senior Project NMED20H3 Theory and Practice of New Media</p> <p>Note: NMED01H3 and NMED20H3 are taught at UTSC. All other NME courses are taught at Centennial College.</p>	<p><i>Undergraduate Advisor: 416-287-7184 Email: nme-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements</p> <p>Students must complete 9.0 full credits of which at least 2.0 must be at the C- or D-level, including:</p> <p>1. 1.0 credit:</p> <p>MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media</p> <p>2. 1.5 credits:</p> <p>MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>3. 0.5 additional credit in MDS courses</p> <p>4. 0.5 credit from the following:</p> <p>CSCA20H3 Computer Science for the Sciences VPAA06H3 Visual and Performing Arts Management in the Digital Age VPMC91H3 Electronic Music VPMC97H3 Music, Technologies, Media VPSA62H3 Foundation Studies in Studio VPSA73H3 Video I VPSA74H3 Digital Studio I VPSB67H3 Photo I VPSB72H3 Digital Publishing VPSB75H3 Photo II VPSB76H3 Video II VPSB80H3 Digital Studio II VPSB86H3 Sculpture and Technology VPSB87H3 Documentary Photography VPSB88H3 Sound Art VPSB89H3 Digital Animation I VPSC52H3 Documentary Video VPSC70H3 Theory and Practice: New Media in Studio VPSC89H3 Digital Animation II</p> <p>Note: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).</p> <p>5. 4.5 credits from Centennial College:</p> <p><i>New Media Group 1.</i></p> <p>NMEA01H3 Digital Fundamentals NMEA02H3 Introduction to New Media Communications NMEA03H3 The Language of Design NMEA04H3 Interface Design, Navigation and Interaction I</p> <p><i>New Media Group 2.</i></p> <p>[Students will be eligible to enrol in these courses after successfully completing all courses in New Media Group 1]</p> <p>NMEB05H3 Interface Design, Navigation and Interaction II NMEB06H3 Project Development and Presentation NMEB08H3 Application Software for Interactive Media NMEB09H3 Sound Design NMEB10H3 Design for New Media</p> <p>6. 1.0 full credit:</p> <p>NMED01H3 New Media Senior Project NMED20H3 Theory and Practice of New Media</p> <p>Note: NMED01H3 and NMED20H3 are taught at UTSC. All other NME courses are taught at Centennial College.</p>

Program notes/tables

Program: SCSPEJOU - Compare

Code	SCSPEJOU	SCSPEJOU
Owning Organizations	JOU,ACMSC	JOU,ACMSC
Sections	Journalism	Journalism
Title	SPECIALIST (JOINT) PROGRAM IN JOURNALISM (ARTS)	SPECIALIST (JOINT) PROGRAM IN JOURNALISM (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Director:</i> J. Dvorkin (416-287-7163) <i>Email:</i> journalism@utsc.utoronto.ca</p> <p>This program may be taken in fulfillment of the requirements of a four-year (20.0 credit) Honours B.A. Degree and requires four to five years to complete. In addition to completing the requirements for the degree, students will also qualify for the Advanced College Diploma from Centennial College.</p> <p>Courses are taught at both U of T Scarborough and at Centennial College (The Story Arts Centre in East York). Centennial courses are taken during three consecutive college semesters starting in the third year of the program. Students must be registered on a full-time basis while at Centennial College. The course work may include evenings and weekends.</p> <p>Students must maintain a Cumulative Grade Point Average (CGPA) of 2.0 or higher to remain in the program.</p> <p>Guidelines for 1st year course selection Students intending to complete the program should include the following in their first year course selection: MDSA01H3 and JOUA01H3 & JOUA02H3 and ACMA01H3 & other courses of interest.</p> <p>Guidelines for computer and software selection Students accepted in the Joint Program in Journalism are advised to purchase an industry standard laptop and obtain designated software and hardware.</p> <p>Computer: 13-inch Apple MacBook Pro or laptop with Windows 7 or higher operating system which is capable of running the current version of Adobe software.</p> <p>Software: Microsoft Office Suite (Word, Excel, Powerpoint), 2010 or more recent version, and Adobe Photoshop (most recent version).</p> <p>For questions regarding camera equipment, please contact the Centennial College Program Coordinator.</p> <p>The Journalism Study Guide is available at: www.uts.utoronto.ca/~humdiv/prg_jo.html</p> <p>Note: Many of the new media courses codes have changed from MDS to JOU. See course descriptions.</p> <p>Program Admission Limited enrolment. Applicants must fill out a joint program application form, which is available online at www.uts.utoronto.ca/jtprogs</p> <p>Program Requirements This program requires the completion of at least 13.5 credits, as indicated below:</p> <p>1. 2.0 credits as follows: MDSA01H3 Introduction to Media Studies JOUA01H3 Introduction to Journalism I JOUA02H3 Introduction to Journalism II ACMA01H3 Exploring Key Questions in Humanities</p> <p>2. 2.5 credits as follows: JOUB24H3 Journalism in the Age of New Media JOUB01H3 Covering Immigration and Transnational Issues JOUB02H3 Critical Journalism JOUB39H3 Fundamentals of Journalistic Writing ACMA02H3 Inquiry and Reasoning in the Humanities</p>	<p><i>Program Director:</i> J. Dvorkin (416-287-7163) <i>Email:</i> journalism@utsc.utoronto.ca</p> <p>This program may be taken in fulfillment of the requirements of a four-year (20.0 credit) Honours B.A. Degree and requires four to five years to complete. In addition to completing the requirements for the degree, students will also qualify for the Advanced College Diploma from Centennial College.</p> <p>Courses are taught at both U of T Scarborough and at Centennial College (The Story Arts Centre in East York). Centennial courses are taken during three consecutive college semesters starting in the third year of the program. Students must be registered on a full-time basis while at Centennial College. The course work may include evenings and weekends. A final semester prior to graduation is on the UTSC campus where a "capstone course" is required along with a work placement of 15 weeks.</p> <p>Students must maintain a Cumulative Grade Point Average (CGPA) of 2.0 or higher to remain in the program.</p> <p>Guidelines for 1st year course selection Students intending to complete the program should include the following in their first year course selection: MDSA01H3 and JOUA01H3 and JOUA02H3 and ACMB01H3 and other courses of interest.</p> <p>Guidelines for computer and software selection Students accepted in the Joint Program in Journalism are advised to purchase an industry standard laptop and obtain designated software and hardware.</p> <ul style="list-style-type: none"> • Computer: 13-inch Apple MacBook Pro capable of running the current version of Adobe software. • Software: Microsoft Office Suite (Word, Excel, Powerpoint), 2010 or more recent version, and Adobe Photoshop (most recent version). • For questions regarding camera equipment, please contact the Centennial College Program Coordinator, Prof. Tim Doyle TDoyle@centennialcollege.ca <p>The Journalism Study Guide is available at: www.uts.utoronto.ca/~humdiv/prg_jo.html</p> <p>Program Admission Limited enrolment. Applicants must fill out a joint program application form, which is available online at www.uts.utoronto.ca/jtprogs</p> <p>Program Requirements This program requires the completion of at least 13.5 credits, as indicated below:</p> <p>1. First Year (2.5 credits): <i>Introductory Journalism Courses (1.0 credit)</i> JOUA01H3 Introduction to Journalism I JOUA02H3 Introduction to Journalism II</p> <p><i>Introductory Media Studies Courses (0.5 credit)</i> MDSA01H3 Introduction to Media Studies</p> <p><i>Introductory Humanities Courses (1.0 credit)</i> ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs ACMB02H3 Methods of Inquiry and Investigation for ACM Programs</p> <p>2. Second Year (2.0 credits): <i>Journalism Core Courses</i> JOUB01H3 Covering Immigration and Transnational Issues</p>

3. 1.5 credits at the C- or D-level, of which at least 0.5 credit must be at the D-level. Selection of these courses may be made only after prior consultation with the Program Director.

4. Courses that satisfy the requirements of one Minor Program. **Note:** Courses used to meet this requirement may also be applied to Requirements 1) through 3).

5. 2.0 credits as follows (Journalism Group I):

[Note: students will be eligible to enrol in these courses after successfully completing at least 10.0 credits at the University of Toronto Scarborough (or obtaining permission of the Program Director), including **MDSA01H3**,

JOUA01H3, **JOUA02H3**, **JOUB24H3**, **JOUB01H3**, **JOUB02H3**, **JOUB39H3**, **ACMA01H3**, **ACMA02H3**.]

***JOUA06H3** Journalism Law and Ethics

***JOUB11H3** News Reporting

***JOUB14H3** Journalism Design

***JOUB18H3** Imaging: Photography for Journalists

6. 2.5 credits as follows (Journalism Group II):

[Note: students will be eligible to enrol in these courses after successfully completing the courses from Journalism Group I above.]

***JOUB03H3** Magazine/Freelance Journalism

***JOUB05H3** Advanced Interviewing Techniques

***JOUB10H3** News Laboratory I

***JOUB17H3** Radio News

***JOUB20H3** Multiplatform Journalism

7. 2.0 credits as follows (Journalism Group III):

[Note: students will be eligible to enrol in these courses after successfully completing the courses from Journalism Group II above.]

***JOUC13H3** Beat Reporting

***JOUC16Y3** News Laboratory II

***JOUC17H3** Television News

8. ***JOUC25H3** Field Placement

[Note: students will be eligible to enrol in this course after successfully completing Journalism Group III above.]

9. **JOUD10H3** Senior Seminar in Journalism

* A minimum grade of C- is required in these particular courses to pass and maintain standing in the program.

Completion of a Career Management course is required to qualify for the Advanced College Diploma from Centennial College.

JOUB02H3 Critical Journalism

JOUB24H3 Journalism in the Age of Digital Media

JOUB39H3 Fundamentals of Journalistic Writing

3. **Third Year (4.5 credits):**

Journalism Application Courses

(a) Centennial College Group 1 (2.0 credits)

***JOUA06H3** Journalism Law and Ethics

***JOUB11H3** News Reporting

***JOUB14H3** Multiplatform Design

***JOUB18H3** Imaging: Photography for Journalists

*A minimum grade of 60% is required in these courses to pass and maintain standing in the program.

[Note: students will be eligible to enrol in Centennial College Group 1 courses after successfully completing at least 10.0 credits at the

University of Toronto Scarborough (or obtaining permission of the Program Director), including **JOUA01H3**, **JOUA02H3**, **MDSA01H3**,

JOUB01H3, **JOUB02H3**, **JOUB24H3**, **JOUB39H3**, **ACMB01H3**, and **ACMB02H3**.]

(b) Centennial College Group 2 (2.5 credits)

***JOUB03H3** Magazine/Freelance Journalism

***JOUB05H3** Advanced Interviewing Techniques

***JOUB10H3** News Laboratory I

***JOUB17H3** Radio News

***JOUB20H3** Interactive Journalism

*A minimum grade of 60% is required in these courses to pass and maintain standing in the program.

[Note: students will be eligible to enrol in Centennial College Group 2 courses after successfully completing the courses from Centennial College Group 1 above.]

4. **Third/Fourth Year:**

(a) 1.5 credits at the C- or D-level in JOU courses, of which at least 0.5 credit must be at the D-level. Selection of these courses may be made only after prior consultation with the Program Director.

(b) Courses that satisfy the requirements of one Minor Program. **Note:** Courses used to meet this requirement may also be applied to requirements 1, 2 and 4(a).

5. **Fourth Year (3.0 credits):**

Advanced Journalism Application Courses

Centennial College Group 3 (2.0 credits)

***JOUC13H3** Entrepreneurial Reporting

***JOUC16Y3** News Laboratory II

***JOUC17H3** Television News

*A minimum grade of 60% is required in these courses to pass and maintain standing in the program.

[Note: students will be eligible to enrol in Centennial College Group 3 courses after successfully completing the courses from Centennial College Group 2 above.]

D-level Journalism Courses (0.5 credit)

JOUD10H3 Senior Seminar in Journalism

[Note: this course is held on the UTSC campus]

Journalism Field Placement (0.5 credit)

***JOUC25H3** Field Placement

* A minimum grade of 60% is required in this course to pass and maintain standing in the program. Students are also required to have completed a non-credit Career Management course prior to starting their field placement. No academic credit is given for the Career Management course and no fee is charged. Students must contact their Program Coordinator at Centennial College to enroll in the Career Management course, they cannot enroll in this course via ACORN.

[Note: students will be eligible to enrol in this course after successfully completing the courses from Centennial College Group 3 above.]

Program: SCMINMDS - Compare

Code	SCMINMDS	SCMINMDS
Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	Media Studies	Media Studies
Title	MINOR PROGRAM IN MEDIA STUDIES (ARTS)	MINOR PROGRAM IN MEDIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 4.0 credits including 1.0 credit at the C- or D-level:</p> <p>1. 1.0 credit from the following: ACMA01H3 Exploring Key Questions in the Humanities MDSA01H3 Introduction to Media Studies</p> <p>2. 0.5 credit from the following: MDSA02H3 History of Media MDSB05H3 Media and Globalization</p> <p>3. 0.5 credit from the following: MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>4. 2.0 additional credit in MDS courses</p>	<p><i>Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 4.0 credits including 1.0 credit at the C- or D-level:</p> <p>1. 1.0 credit from the following: ACMB01H3 Critical Reading, Thinking, and Writing for ACM Programs MDSA01H3 Introduction to Media Studies</p> <p>2. 0.5 credit from the following: MDSA02H3 History of Media MDSB05H3 Media and Globalization</p> <p>3. 0.5 credit from the following: MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>4. 2.0 additional credit in MDS courses</p>

Program notes/tables

Program: SCSPE11262 - Compare

Code	SCSPE11262	SCSPE11262
Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	Studio	Studio
Title	SPECIALIST PROGRAM IN STUDIO (ARTS)	SPECIALIST PROGRAM IN STUDIO (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor (General):</i> Email: studio-program-supervisor@utsc.utoronto.ca</p> <p><i>Program Advisor:</i> Y. Brotman; Email: ybrotman@utsc.utoronto.ca</p> <p>Enrolment in the Specialist in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3. For students applying after 8-10 credits, admission will be based on the overall GPA and grades in VPS courses taken.</p> <p>This program requires the completion of 14.0 credits, including 4 full credits at the C-or D-level of which at least 1.0 credit must be at the D-level.</p> <p>1. (3.5 credits)</p> <p>ACMA01H3 Exploring Key Questions in the Humanities MDSA01H3 Introduction to Media Studies VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why is it Art? VPSA70H3 Drawing I VPSB73H3 Curatorial Perspectives I VPSB74H3 Drawing II</p> <p>2. (0.5 credit)</p> <p>One of the following: VPSC66H3 Theory and Practice: Two Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio</p> <p>3. (6.0 credits)</p> <p>6.0 additional credits from VPS of which at least 1.5 credits should be at the C- level and 1.0 credit at the D level.</p> <p>4. (3.0 credits)</p> <p>VPHA46H3 Ways of Seeing: Introduction to Art Histories 2.5 additional credits in art history of which 1 full credit should be at the C- level.</p> <p>5. (1.0 credit)</p> <p>1.0 credit from the following: ENGB12H3 Life Writing ENGB70H3 Intro to Cinema ENGB75H3 Cinema and Modernity I GASC42H3 Film and Popular Culture in South Asia MDSA02H3 History of Media MDSB05H3 Media and Globalization MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication</p>	<p><i>Undergraduate Advisor (General):</i> Email: studio-program-supervisor@utsc.utoronto.ca</p> <p>Enrolment in the Specialist in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3. For students applying after 8-10 credits, admission will be based on the overall GPA and grades in VPS courses taken.</p> <p>This program requires the completion of 14.0 credits, including 4 full credits at the C-or D-level of which at least 1.0 credit must be at the D-level.</p> <p>1. (3.5 credits)</p> <p>ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs MDSA01H3 Introduction to Media Studies VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why is it Art? VPSA70H3 Drawing I VPSB73H3 Curatorial Perspectives I VPSB74H3 Drawing II</p> <p>2. (0.5 credit)</p> <p>One of the following: VPSC66H3 Theory and Practice: Two Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio</p> <p>3. (6.0 credits)</p> <p>6.0 additional credits from VPS of which at least 1.5 credits should be at the C- level and 1.0 credit at the D level.</p> <p>4. (3.0 credits)</p> <p>VPHA46H3 Ways of Seeing: Introduction to Art Histories 2.5 additional credits in art history of which 1 full credit should be at the C- level.</p> <p>5. (1.0 credit)</p> <p>1.0 credit from the following: ENGB12H3 Life Writing ENGB70H3 Intro to Cinema ENGB75H3 Cinema and Modernity I GASC42H3 Film and Popular Culture in South Asia MDSA02H3 History of Media MDSB05H3 Media and Globalization MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication</p>

Program notes/tables

Program: SCMAJ1126 - Compare

Code	SCMAJ1126	SCMAJ1126
Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	Studio	Studio
Title	MAJOR PROGRAM IN STUDIO (ARTS)	MAJOR PROGRAM IN STUDIO (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor (General):</i> Email: studio-program-supervisor@utsc.utoronto.ca</p> <p><i>Program Advisor:</i> Y. Brotman; Email: ybrotman@utsc.utoronto.ca</p> <p>Enrolment in the Major in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a students overall GPA and grades in VPSA62H3 and VPSA63H3.</p> <p>Program Requirements Students must complete eight full credits including:</p> <ol style="list-style-type: none"> VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why Is It Art? ACMA01H3 Exploring Key Questions in Humanities VPHA46H3 Ways of Seeing: Introduction to Art Histories VPSA70H3 Drawing I VPSB74H3 Drawing II At least one-half credit from: VPSC66H3 Theory and Practice: Two-Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio 3.5 additional credits from courses in VPS, at least one full credit of which must be at the C-level. One full credit at the D-level in VPS 	<p><i>Undergraduate Advisor (General):</i> Email: studio-program-supervisor@utsc.utoronto.ca</p> <p>Enrolment in the Major in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a students overall GPA and grades in VPSA62H3 and VPSA63H3.</p> <p>Program Requirements Students must complete eight full credits including:</p> <ol style="list-style-type: none"> VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why Is It Art? ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs VPHA46H3 Ways of Seeing: Introduction to Art Histories VPSA70H3 Drawing I VPSB74H3 Drawing II At least one-half credit from: VPSC66H3 Theory and Practice: Two-Dimensional Work VPSC68H3 Theory and Practice: Time-Based Work VPSC69H3 Theory and Practice: Art in a Globalizing World VPSC70H3 Theory and Practice: New Media in Studio 3.5 additional credits from courses in VPS, at least one full credit of which must be at the C-level. One full credit at the D-level in VPS

Program notes/tables

Program: SCMAJ2148 - Compare

Code	SCMAJ2148	SCMAJ2148
Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	Theatre and Performance Studies	Theatre and Performance Studies
Title	MAJOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)	MAJOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 8.0 full credits as follows:

1. [ACMA01H3](#) Exploring Key Questions in Humanities
2. [VPDA10H3](#) Introduction to Theatre
[VPDA11H3](#) Introduction to Performance
[VPDB01H3](#) Intermediate Workshop in Performance I
[VPDB02H3](#) Intermediate Workshop in Performance II
3. [VPDB04H3](#) Experiencing the Live Theatre
[VPDB15H3](#) The Actor and the Script
4. [VPDB10H3](#) Theatre History I: From Ritual to Renaissance
[VPDB11H3](#) Theatre History II: Early Modern Popular Theatre
[VPDB12H3](#) Theatre History III: Modern Theatre in Global Context
[VPDB13H3](#) Theatre in Canada
5. [VPDC20H3](#) Special Topics in Performance
6. [VPDD50H3](#) Advanced Seminar in Theatre and Performance
7. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.
In fulfilling requirement #7, students may substitute one full credit from another discipline with the Program Director's written permission. The following courses are particularly recommended:
[VPSB77H3](#) Performance Art
[VPMB79H3](#) Performing Arts of Asia
[VPMB93H3](#) Music for the Theatre
[VPMB97H3](#) Film: Music
[ENGB14H3](#) Twentieth-Century Drama
[ENGB32H3](#) Shakespeare in Context I
[ENGB33H3](#) Shakespeare in Context II
[ENGB70H3](#) Introduction to Cinema
[ENGC07H3](#) Canadian Drama
[ENGC26H3](#) Drama: Tragedy
[ENGC27H3](#) Drama: Comedy
[GASB15H3](#) The Arts of South Asia
[GASC42H3](#) Film and Popular Culture in South Asia
[GASC45H3](#) Film and Popular Cultures in East Asia

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 8.0 full credits as follows:

1. [ACMB01H3](#) Critical Reading, Thinking, and Writing for ACM Programs
2. [VPDA10H3](#) Introduction to Theatre
[VPDA11H3](#) Introduction to Performance
[VPDB01H3](#) Intermediate Workshop in Performance I
[VPDB02H3](#) Intermediate Workshop in Performance II
3. [VPDB04H3](#) Experiencing the Live Theatre
[VPDB15H3](#) The Actor and the Script
4. [VPDB10H3](#) Theatre History I: From Ritual to Renaissance
[VPDB11H3](#) Theatre History II: Early Modern Popular Theatre
[VPDB12H3](#) Theatre History III: Modern Theatre in Global Context
[VPDB13H3](#) Theatre in Canada
5. [VPDC20H3](#) Special Topics in Performance
6. [VPDD50H3](#) Advanced Seminar in Theatre and Performance
7. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.
In fulfilling requirement #7, students may substitute one full credit from another discipline with the Program Director's written permission. The following courses are particularly recommended:
[VPSB77H3](#) Performance Art
[VPMC85H3](#) Movies, Music and Meaning
[VPMC89H3](#) Music and Identity
[VPMC97H3](#) Music, Technologies, Media
[ENGB14H3](#) Twentieth-Century Drama
[ENGB32H3](#) Shakespeare in Context I
[ENGB33H3](#) Shakespeare in Context II
[ENGB70H3](#) Introduction to Cinema
[ENGC07H3](#) Canadian Drama
[ENGC26H3](#) Drama: Tragedy
[ENGC27H3](#) Drama: Comedy
[GASB15H3](#) The Arts of South Asia
[GASC42H3](#) Film and Popular Culture in South Asia
[GASC45H3](#) Film and Popular Cultures in East Asia

Program notes/tables

Program: SCMIN2148 - Compare

Code	SCMIN2148	SCMIN2148
Owning Organizations	VPD,ACMSC	VPD,ACMSC
Sections	Theatre and Performance Studies	Theatre and Performance Studies
Title	MINOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)	MINOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 4.0 full credits as follows:

1. [ACMA01H3](#) Exploring Key Questions in Humanities
2. [VPDA10H3](#) Introduction to Theatre
[VPDA11H3](#) Introduction to Performance or [VPDA15H3](#) Introduction to the Fundamentals of Acting]
and at least two of the following courses: [VPDB10H3](#),
[VPDB11H3](#), [VPDB12H3](#), [VPDB13H3](#)]
Note: Students who do not qualify for either [VPDA11H3](#) or [VPDA15H3](#) should take all of the following courses:
[VPDB10H3](#), [VPDB11H3](#), [VPDB12H3](#), [VPDB13H3](#)
3. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 4.0 full credits as follows:

1. [ACMB01H3](#) Critical Reading, Thinking, and Writing for ACM Programs
2. [VPDA10H3](#) Introduction to Theatre
[VPDA11H3](#) Introduction to Performance or [VPDA15H3](#) Introduction to the Fundamentals of Acting]
and at least two of the following courses: [VPDB10H3](#),
[VPDB11H3](#), [VPDB12H3](#), [VPDB13H3](#)]
Note: Students who do not qualify for either [VPDA11H3](#) or [VPDA15H3](#) should take all of the following courses:
[VPDB10H3](#), [VPDB11H3](#), [VPDB12H3](#), [VPDB13H3](#)
3. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.

Program notes/tables

Program: SCSPE1666H - Compare

Code	SCSPE1666H	SCSPE1666H
Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	Geography	Geography
Title	SPECIALIST PROGRAM IN HUMAN GEOGRAPHY (ARTS)	SPECIALIST PROGRAM IN HUMAN GEOGRAPHY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements Students must complete 12.0 credits as follows:</p> <p>1. Foundations of Human Geography (1.0 credit from among the following) GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience</p> <p>2. Theory and Concepts in Human Geography (2.5 credits) GGRB02H3 The Logic of Geographical Thought GGRB03H3 Writing Geography: From Good to Great and 1.5 credits from among the following: GGRB05H3 Urban Geography GGRB13H3 Social Geography GGRB21H3 Environments and Environmentalisms GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography</p> <p>3. Methods (2.0 credits) GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent) and 1.0 credits from: GGRB30H3 Fundamentals of GIS I GGRB32H3 Fundamentals of GIS II GGRC31H3 Qualitative Geographical Methods: Place and Ethnography</p> <p>4. Applications (5.5 credits) 5.5 additional credits at the C- and/or D-level in GGR courses</p> <p>5. Advanced Applications (1.0 credit) 1.0 credit at the D-level in GGR courses</p>	<p>The Specialist in Human Geography expands upon, and enhances, the course requirements and learning outcomes of the Major in Human Geography. It is a more in-depth program that allows a deeper exploration of Human Geography, thus creating an opportunity for advanced students to engage in a richer, more intensive program, and allowing them to gain a sufficient depth of knowledge, and the enhanced methods and skills training they will need, for graduate studies or to compete in employment markets. The Specialist program will pair nicely with the Minor in GIS, or the Minor in City Studies.</p> <p>Program Requirements Students must complete 12.0 credits as follows:</p> <p>1. Foundations of Human Geography (1.0 credit from among the following) GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience</p> <p>2. Theory and Concepts in Human Geography (2.5 credits) GGRB02H3 The Logic of Geographical Thought GGRB03H3 Writing Geography: From Good to Great and 1.5 credits from among the following: GGRB05H3 Urban Geography GGRB13H3 Social Geography GGRB21H3 Environments and Environmentalisms GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography</p> <p>3. Methods (2.0 credits) GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent) and 1.0 credits from: GGRB30H3 Fundamentals of GIS I GGRB32H3 Fundamentals of GIS II GGRC31H3 Qualitative Geographical Methods: Place and Ethnography</p> <p>4. Applications (5.5 credits) 5.5 additional credits at the C- and/or D-level in GGR courses</p> <p>5. Advanced Applications (1.0 credit) 1.0 credit at the D-level in GGR courses</p>

Program notes/tables

Program: SCMIN1690 - Compare

Code	SCMIN1690	SCMIN1690
Owning Organizations	ACMSC,CUR	ACMSC,CUR
Sections	Curatorial Studies	Curatorial Studies
Title	MINOR PROGRAM IN CURATORIAL STUDIES (ARTS)	MINOR PROGRAM IN CURATORIAL STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Admission Requirements	This program is restricted to students who are enrolled in the Major in Art History, Specialist in Arts Management, Major in Media Studies, and Specialist or Major in Studio. Students may apply to the Minor in Curatorial Studies after completing 2.0 credits, including 0.5 credit from the following: [ACMB01H3, MDSA01H3, VPAA10H3, VPHA46H3, VPSA62H3, VPSA63H3] .	This program is restricted to students who are enrolled in the Major in Art History, Specialist in Arts Management, Major in Media Studies, and Specialist or Major in Studio. Students may apply to the Minor in Curatorial Studies after completing 2.0 credits, including 0.5 credit from the following: [ACMB01H3, MDSA01H3, VPAA10H3, VPHA46H3, VPSA62H3, VPSA63H3] .

Description

The Minor in Curatorial Studies will provide an introduction to students interested in understanding and creating exhibitions, interventions, and texts in diverse communities, within a globalized world. Students will work toward a creative cultural practice through the study of media, materials and techniques, research methodologies, cultural theory, training in connoisseurship, critical analysis of art and social relationships, and in the organization of exhibitions, interventions and on-line projects. Students will be familiarized with current trends in practice, theories, and criticism, and will study the artistic production of historical and diverse cultures of the modern and contemporary world. Emphasis will be placed on experiential education through studio visits, gallery visits, technical workshops, exhibitions, installations, and fieldwork. Practical experience and collaborative skills will be developed as critical components of the learning process in Curatorial Studies courses, according to the established professional and academic guidelines for Curatorial Studies Programs.

The Minor in Curatorial Studies is designed primarily for students majoring in Art History, Arts Management, Media Studies or Studio Arts programs. Students interested in enrolling in the Minor must have completed the foundation courses in their major discipline before they can begin taking Curatorial Studies courses.

Program Requirements

The program requires completion of 4.0 credits as follows:

1. 0.5 credit from the following:

[ACMB01H3](#) Critical Reading, Thinking and Writing for ACM Programs
[MDSA01H3](#) Introduction to Media Studies
[VPAA10H3](#) Introduction to Arts Management
[VPHA46H3](#) Ways of Seeing: Introduction to Art Histories
[VPSA62H3](#) Foundation Studies in Studio
[VPSA63H3](#) But Why Is It Art?

2. 1.0 credit as follows:

[CURB01H3](#) Introduction to Curating Art
[VPSB73H3](#) Curatorial Perspectives I

3. 1.0 credit as follows:

[CURC72H3/VPHC72H3](#) Art, the Museum, and the Gallery
[VPSC51H3](#) Curatorial Perspectives II

4. 0.5 credit from the following:

[MDSB62H3](#) Visual Culture and Communication
[MDS61H3](#) Alternative Media
[MDS01H3](#) Seminar: Topics in Media and Art
[VPHB78H3](#) Our Town, Our Art: Local Collections I
[VPHB79H3](#) Our Town, Our Art: Local Collections II
[VPHC75H3](#) The Artist, Maker, Creator

5. 1.0 credit as follows:

[CURD43H3](#) Curating Contemporary Art (formerly VPHD43H3)
[CURD44H3](#) Curating Historical Art (formerly VPHD44H3)

The Minor in Curatorial Studies will provide an introduction to students interested in understanding and creating exhibitions, interventions, and texts in diverse communities, within a globalized world. Students will work toward a creative cultural practice through the study of media, materials and techniques, research methodologies, cultural theory, training in connoisseurship, critical analysis of art and social relationships, and in the organization of exhibitions, interventions and on-line projects. Students will be familiarized with current trends in practice, theories, and criticism, and will study the artistic production of historical and diverse cultures of the modern and contemporary world. Emphasis will be placed on experiential education through studio visits, gallery visits, technical workshops, exhibitions, installations, and fieldwork. Practical experience and collaborative skills will be developed as critical components of the learning process in Curatorial Studies courses, according to the established professional and academic guidelines for Curatorial Studies Programs.

The Minor in Curatorial Studies is designed primarily for students majoring in Art History, Arts Management, Media Studies or Studio Arts programs. Students interested in enrolling in the Minor must have completed the foundation courses in their major discipline before they can begin taking Curatorial Studies courses.

Program Requirements

The program requires completion of 4.0 credits as follows:

1. 0.5 credit from the following:

[ACMB01H3](#) Critical Reading, Thinking and Writing for ACM Programs
[MDSA01H3](#) Introduction to Media Studies
[VPAA10H3](#) Introduction to Arts Management
[VPHA46H3](#) Ways of Seeing: Introduction to Art Histories
[VPSA62H3](#) Foundation Studies in Studio
[VPSA63H3](#) But Why Is It Art?

2. 1.0 credit as follows:

[CURB01H3](#) Introduction to Curating Art
[VPSB73H3](#) Curatorial Perspectives I

3. 1.0 credit as follows:

[CURC72H3/VPHC72H3](#) Art, the Museum, and the Gallery
[VPSC51H3](#) Curatorial Perspectives II

4. 0.5 credit from the following:

[MDSB62H3](#) Visual Culture and Communication
[MDS61H3](#) Alternative Media
[MDS01H3](#) Seminar: Topics in Media and Art
[VPHB78H3](#) Our Town, Our Art: Local Collections I
[VPHB79H3](#) Our Town, Our Art: Local Collections II
[VPHC75H3](#) The Artist, Maker, Creator

5. 1.0 credit as follows:

[CURD43H3](#) Curating Contemporary Art
[CURD44H3](#) Curating Historical Art

Program notes/tables

Program: SCSPE2345 - Compare

Code	SCSPE2345	SCSPE2345
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Co-operative Program in International Development Studies (B.Sc.) at the University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.Sc. with a Specialist certification in International Development Studies.</p> <p>Program Admission</p> <p>Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.</p> <p>Work Placement</p> <p>This Program requires twenty courses (four years) of study and one work term of eight to twelve months in duration. The work term will normally begin between May and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.</p> <p>Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 full credits including 12.0 IDS credits. These 12 must include IDSC01H3, IDSC04H3 plus 9.5 other credits from Requirements 1 through 6. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.</p> <p>IDS Co-op Tutorial and Pre-Departure Orientation</p> <p>In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program</p>	<p><i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Co-operative Program in International Development Studies (B.Sc.) at the University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.Sc. with a Specialist certification in International Development Studies.</p> <p>Program Admission</p> <p>Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p><i>Prospective Applicants:</i> For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this <i>Calendar</i>.</p> <p><i>Current U of T Scarborough students:</i> Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.</p> <p>Work Placement</p> <p>This Program requires twenty courses (four years) of study and one work term of eight to twelve months in duration. The work term will normally begin between May and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.</p> <p>Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 full credits including 12.0 IDS credits. These 12 must include IDSC01H3, IDSC04H3 plus 9.5 other credits from Requirements 1 through 6. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this <i>Calendar</i>.</p> <p>Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.</p> <p>IDS Co-op Tutorial and Pre-Departure Orientation</p> <p>In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program</p>

with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

First Year:

During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to the Third Year course.

Third Year:

Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year - usually third year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the [IDSD01Y3](#) thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

Program Requirements:

This program requires 16.0 credits of which at least 4.0 must be at the C-or D- level including at least 1.0 at the D-level.

- 1. Introduction to International Development Studies (2.0 credits)**
[IDSA01H3](#) Introduction to International Development Studies
[MGEA01H3](#) Introduction to Microeconomics or [MGEA02H3](#) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#) Introduction to Macroeconomics or [MGEA06H3](#) Introduction to Macroeconomics: A Mathematical Approach]
[EESA01H3](#) Introduction to Environmental Science
- 2. Core courses in International Development (3.0 credits)**
[IDSB01H3](#) Political Economy of International Development
[IDSB02H3](#) Development and Environment
[IDSB04H3](#) Introduction to International/Global Health
[IDSB06H3](#) Equity, Ethics and Justice in International Development
[POLB90H3](#) Comparative Development in International Perspective
[POLB91H3](#) Comparative Development in Political Perspective
- 3. Methods for International Development Studies (1.5 credits)**
[IDSC04H3](#) Project Management I
 0.5 credit in Quantitative/statistical methods from the following:
[ANTC35H3](#) Quantitative Methods in Anthropology
[MGEB11H3](#) Quantitative Methods in Economics I
[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I
[HLTB15H3](#) Introduction to Health Research Methodology
[STAB22H3](#) Statistics I
 0.5 FCE in Qualitative Methods from the following:
[ANTB19H3](#) Ethnography and the Comparative Study of Human Societies
[GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography
[HLTC04H3](#) Critical Qualitative Health Research Methods
[POLC78H3](#) Political Analysis I
- 4. Specialized Courses: Core (3.0 credits)**
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Biological and Physical Sciences
[PHYA10H3](#) or [PHYA11H3](#) Introduction to Physics IA or IB]

with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

First Year:

During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to the Third Year course.

Third Year:

Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year - usually third year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the [IDSD01Y3](#) thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

Program Requirements:

This program requires 16.0 credits of which at least 4.0 must be at the C-or D- level including at least 1.0 at the D-level.

- 1. Introduction to International Development Studies (2.0 credits)**
[IDSA01H3](#) Introduction to International Development Studies
[MGEA01H3](#) Introduction to Microeconomics or [MGEA02H3](#) Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3](#) Introduction to Macroeconomics or [MGEA06H3](#) Introduction to Macroeconomics: A Mathematical Approach]
[EESA01H3](#) Introduction to Environmental Science
- 2. Core courses in International Development (3.0 credits)**
[IDSB01H3](#) Political Economy of International Development
[IDSB02H3](#) Development and Environment
[IDSB04H3](#) Introduction to International/Global Health
[IDSB06H3](#) Equity, Ethics and Justice in International Development
[POLB90H3](#) Comparative Development in International Perspective
[POLB91H3](#) Comparative Development in Political Perspective
- 3. Methods for International Development Studies (1.5 credits)**
[IDSC04H3](#) Project Management I
 0.5 credit in Quantitative/statistical methods from the following:
[ANTC35H3](#) Quantitative Methods in Anthropology
[MGEB11H3](#) Quantitative Methods in Economics I
[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3](#) Fundamentals of GIS I
[HLTB15H3](#) Introduction to Health Research Methodology
[STAB22H3](#) Statistics I
 0.5 FCE in Qualitative Methods from the following:
[ANTB19H3](#) Ethnography and the Comparative Study of Human Societies
[GGRC31H3](#) Qualitative Geographical Methods: Place and Ethnography
[HLTC04H3](#) Critical Qualitative Health Research Methods
[POLC78H3](#) Political Analysis I
- 4. Specialized Courses: Core (3.0 credits)**
[BIOA01H3](#) Life on Earth: Unifying Principles
[BIOA02H3](#) Life on Earth: Form, Function and Interactions
[CHMA10H3](#) Introductory Chemistry I: Structure and Bonding
[CHMA11H3](#) Introductory Chemistry II: Reactions and Mechanisms
[MATA30H3](#) Calculus I for Physical Sciences
[PHYA10H3](#) or [PHYA11H3](#) Introduction to Physics IA or IB]

5. **1.0 credit from:**

[BIOB50H3](#) Ecology
[CHMB55H3](#) Environmental Chemistry
[EESB02H3](#) Principles of Geomorphology
[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science
[EESB15H3](#) Earth History
[EESB16H3](#) Feeding Humans- The Cost to the Planet
[EESB17H3](#) Hydro Politics and Transboundary Water Resource

Management

[GGRC22H3](#) Political Ecology Theory and Applications
[GGRC26H3](#) Geographies of Environmental Governance
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[IDSC02H3](#) Environmental Science and Evidence-Based Policy
[PSCB57H3](#) Introduction to Scientific Computing

6. **3.0 credits from** C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:

[EESC04H3](#) Biodiversity and Biogeography
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area
[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment

[EESD11H3](#) Process Hydrology
[EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

7. **Co-operative, Language and Thesis Requirements (2.5 credits):**

1.0 full credits in a second language
[IDSC01H3](#) Research Design for Development Fieldwork* (*must be taken prior to co-op placement)
[IDSD01Y3](#) Post-placement Seminar and Thesis

5. **1.0 credit from:**

[BIOB50H3](#) Ecology
[CHMB55H3](#) Environmental Chemistry
[EESB02H3](#) Principles of Geomorphology
[EESB03H3](#) Principles of Climatology
[EESB04H3](#) Principles of Hydrology
[EESB05H3](#) Principles of Soil Science
[EESB15H3](#) Earth History
[EESB16H3](#) Feeding Humans- The Cost to the Planet
[EESB17H3](#) Hydro Politics and Transboundary Water Resource

Management

[GGRC22H3](#) Political Ecology Theory and Applications
[GGRC26H3](#) Geographies of Environmental Governance
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[IDSC02H3](#) Environmental Science and Evidence-Based Policy
[PSCB57H3](#) Introduction to Scientific Computing

6. **3.0 credits from** C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:

[EESC04H3](#) Biodiversity and Biogeography
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area

Area

[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment
[EESD11H3](#) Process Hydrology
[EESD15H3](#) Fundamentals of Site Remediation

7. **Co-operative, Language and Thesis Requirements (2.5 credits):**

1.0 full credits in a second language
[IDSC01H3](#) Research Design for Development Fieldwork* (*must be taken prior to co-op placement)
[IDSD01Y3](#) Post-placement Seminar and Thesis

Program notes/tables

Program: SCSPE2540B - Compare

Code	SCSPE2540B	SCSPE2540B
Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	International Development Studies	International Development Studies
Title	SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)	SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements:</p> <p>This program requires 14.0 credits of which at least 4.0 must be at the C-or D- level including at least 1.0 at the D-level.</p> <p>1. Introduction to International Development Studies (2.0 credits): IDSA01H3 Introduction to International Development Studies MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach] MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach] EESA01H3 Introduction to Environmental Science</p> <p>2. Core courses in International Development (3.0 credits): IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective</p> <p>3. Methods for International Development Studies (1.5 credits): IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB22H3 Statistics I 0.5 FCE in Qualitative Methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography HLTC04H3 Critical Qualitative Health Research Methods POLC78H3 Political Analysis I</p> <p>4. Specialized Core Courses (3.0 credits): BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Biological and Physical Sciences PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB]</p> <p>5. 1.0 credits from: BIOB50H3 Ecology CHMB55H3 Environmental Chemistry EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History EESB16H3 Feeding Humans- The Cost to the Planet EESB17H3 Hydro Politics and Transboundary Water Resource Management GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development IDSC02H3 Environmental Science and Evidence-Based Policy PSCB57H3 Introduction to Scientific Computing</p> <p>6. 3.0 credits from C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:</p>	<p>Program Requirements:</p> <p>This program requires 14.0 credits of which at least 4.0 must be at the C-or D- level including at least 1.0 at the D-level.</p> <p>1. Introduction to International Development Studies (2.0 credits): IDSA01H3 Introduction to International Development Studies MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach] MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach] EESA01H3 Introduction to Environmental Science</p> <p>2. Core courses in International Development (3.0 credits): IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 Introduction to International/Global Health IDSB06H3 Equity, Ethics and Justice in International Development POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective</p> <p>3. Methods for International Development Studies (1.5 credits): IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3 Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I HLTB15H3 Introduction to Health Research Methodology STAB22H3 Statistics I 0.5 FCE in Qualitative Methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies GGRC31H3 Qualitative Geographical Methods: Place and Ethnography HLTC04H3 Critical Qualitative Health Research Methods POLC78H3 Political Analysis I</p> <p>4. Specialized Core Courses (3.0 credits): BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB]</p> <p>5. 1.0 credits from: BIOB50H3 Ecology CHMB55H3 Environmental Chemistry EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History EESB16H3 Feeding Humans- The Cost to the Planet EESB17H3 Hydro Politics and Transboundary Water Resource Management GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development IDSC02H3 Environmental Science and Evidence-Based Policy PSCB57H3 Introduction to Scientific Computing</p> <p>6. 3.0 credits from C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:</p>

[EESC04H3](#) Biodiversity and Biogeography

[EESC07H3](#) Groundwater

[EESC13H3](#) Environmental Impact Assessment and Auditing

[EESC20H3](#) Geochemistry

[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area

[EESD02H3](#) Contaminant Hydrogeology

[EESD06H3](#) Climate Change Impact Assessment

[EESD11H3](#) Process Hydrology

[EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

7. Research in International Development Requirement (0.5 credit):

[IDSD02H3](#) Advanced Seminar in Critical Development Studies: Theory and Policy

[EESC04H3](#) Biodiversity and Biogeography

[EESC07H3](#) Groundwater

[EESC13H3](#) Environmental Impact Assessment and Auditing

[EESC20H3](#) Geochemistry

[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area

[EESD02H3](#) Contaminant Hydrogeology

[EESD06H3](#) Climate Change Impact Assessment

[EESD11H3](#) Process Hydrology

[EESD15H3](#) Fundamentals of Site Remediation

7. Research in International Development Requirement (0.5 credit):

[IDSD02H3](#) Advanced Seminar in Critical Development Studies: Theory and Policy

Program notes/tables

Program: SCSPE1688 - Compare

Code	SCSPE1688	SCSPE1688
Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	Computer Science	Computer Science
Title	SPECIALIST PROGRAM IN COMPUTER SCIENCE (SCIENCE)	SPECIALIST PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</i></p> <p>Program Objectives</p> <p>This program provides a working knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. It also imparts an appreciation of the discipline's transformative impact on science and society. The program prepares students for further study and for careers in the computing industry. It comprises four streams with different emphases:</p> <p>The Comprehensive Stream provides a broad and balanced exposure to the discipline. It is the stream best-suited for students planning to pursue graduate study in computer science, but it is also suitable for other career paths.</p> <p>The Software Engineering Stream places a greater emphasis on the engineering side of the discipline, including computer systems and core applications.</p> <p>The Information Systems Stream has a similar focus as the Software Engineering Stream, but it provides additional exposure to certain aspects of business management. It is of special interest to students wishing to pursue careers in technical management but who have a deep interest in the technology.</p> <p>The Health Informatics Stream provides a broad perspective of the discipline and exposure to additional subjects, including statistics and social sciences, that are useful for a career as a computer scientist in the health sector.</p> <p>The structure of the program requirements allows one to easily switch streams until relatively late in the program. Consequently, these streams should not be viewed as rigidly separated channels feeding students to different career paths, but as a flexible structure that provides computer science students guidance in their course selection based on their broad (but possibly fluid) interests.</p> <p>Program Admission</p> <p>Students may apply to a Computer Science Specialist stream after completing first year. An applicant must have passed all of the first-year computer science and mathematics courses required for their program. A CGPA of 2.5 or greater guarantees admission. Admission for students with a CGPA less than 2.5 will depend on their CGPA and the available space in the program.</p> <p>Program Requirements</p> <p>To remain in the program, a student must maintain a CGPA of 2.0 or higher throughout the program. To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses). The program requirements comprise a core of 18 courses (9.0 credits), common to all streams and additional requirements which depend on the stream, for a total of 27 courses (13.5 credits) for the Comprehensive and Software Engineering Streams, 29 courses (14.5 credits) for the Information Systems Stream, and 30 courses (15.0 credits) for the Health Informatics Stream.</p> <p>Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.</p>	<p><i>Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</i></p> <p>Program Objectives</p> <p>This program provides a working knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. It also imparts an appreciation of the discipline's transformative impact on science and society. The program prepares students for further study and for careers in the computing industry. It comprises five streams with different emphases:</p> <p>The Comprehensive Stream provides a broad and balanced exposure to the discipline. It is the stream best-suited for students planning to pursue graduate study in computer science, but it is also suitable for other career paths.</p> <p>The Software Engineering Stream places a greater emphasis on the engineering side of the discipline, including computer systems and core applications.</p> <p>The Information Systems Stream has a similar focus as the Software Engineering Stream, but it provides additional exposure to certain aspects of business management. It is of special interest to students wishing to pursue careers in technical management but who have a deep interest in the technology.</p> <p>The Health Informatics Stream provides a broad perspective of the discipline and exposure to additional subjects, including statistics and social sciences, that are useful for a career as a computer scientist in the health sector.</p> <p>The Entrepreneurship Stream includes a solid core of computer science and software engineering, while exposing students to the framework and methodologies that underlie the development of innovative technology ideas into viable commercial opportunities. Enrolment into the Entrepreneurship stream will be limited to highly qualified and motivated students, and preference will be given to students enrolled in the Specialist (Co-operative) program.</p> <p>The structure of the program requirements allows one to easily switch streams until relatively late in the program. Consequently, these streams should not be viewed as rigidly separated channels feeding students to different career paths, but as a flexible structure that provides computer science students guidance in their course selection based on their broad (but possibly fluid) interests.</p> <p>Program Admission</p> <p>Enrolment in the Specialist in Computer Science (all streams) is limited. Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of 2.5 or greater across the core A-level courses (CSCA08H3, CSCA4H38, CSCA67H3, MATA23H3, MATA31H3, and MATA37H3) are guaranteed admission. Admission to the Entrepreneurship also requires the submission of a Supplementary Application form available from the CMS website.</p> <p>Students who are not admitted as above, may apply after completing at least 7.5 credits, including CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3, CSCB07H3, CSCB09H3, CSCB36H3, CSCB63H3, and [one of MATB24H3 or STAB52H3]. The CGPA will be calculated across these 11 courses, and a CGPA of 2.5 or greater guarantees admission to the Specialist. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program.</p>

Core (9.0 credits)**1. Writing Requirement (0.5 credit) (*)**

One of: [ANTA01H3](#), [ANTA02H3](#), (CLAA02H3), (CTLA19H3), [CTLA01H3](#), [ENGA10H3](#), [ENGA11H3](#), [ENGB06H3](#), [ENGB07H3](#), [ENGB08H3](#), [ENGB09H3](#), [ENGB17H3](#), [ENGB19H3](#), [ENGB50H3](#), (ENGB51H3), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3), (HISA01H3), (HLTA01H3), [ACMA01H3](#), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

(*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (3.0 credits)

[CSCA08H3](#) Introduction to Computer Science I
[CSCA48H3](#) Introduction to Computer Science II
[CSCA67H3](#) Discrete Mathematics
[MATA23H3](#) Linear Algebra I
[MATA31H3](#) Calculus I for Mathematical Sciences
[MATA37H3](#) Calculus II for Mathematical Sciences

3. B-level courses (3.5 credits)

[CSCB07H3](#) Software Design
[CSCB09H3](#) Software Tools and Systems Programming
[CSCB36H3](#) Introduction to the Theory of Computation
[CSCB58H3](#) Computer Organization
[CSCB63H3](#) Design and Analysis of Data Structures
[MATB24H3](#) Linear Algebra II
[STAB52H3](#) Introduction to Probability

4. C-level courses (1.5 credits)

[CSCC43H3](#) Introduction to Databases
[CSCC69H3](#) Operating Systems
[CSCC73H3](#) Algorithm Design and Analysis

5. D-level courses (0.5 credit)

[CSCD03H3](#) Social Impact of Information Technology

A. Comprehensive Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (2.5 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC24H3](#) Principles of Programming Languages
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD37H3](#) Analysis of Numerical Algorithms for Computational Mathematics

7. Electives from courses on computers systems and applications (1.0 credit)**Two of:**

[CSCC01H3](#) Introduction to Software Engineering
[CSCC09H3](#) Programming on the Web
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD01H3](#) Engineering Large Software Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD43H3](#) Database System Technology
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

8. Electives from courses related to the theory of computing (0.5**Program Requirements**

To remain in the program, a student must maintain a CGPA of 2.0 or higher throughout the program. To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses). The program requirements comprise a core of 18 courses (9.0 credits), common to all streams and additional requirements which depend on the stream, for a total of 27 courses (13.5 credits) for the Comprehensive, Software Engineering, and Entrepreneurship streams, 29 courses (14.5 credits) for the Information Systems stream, and 30 courses (15.0 credits) for the Health Informatics stream.

Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.

Core (9.0 credits)**1. Writing Requirement (0.5 credit) (*)**

One of: [ANTA01H3](#), [ANTA02H3](#), (CLAA02H3), (CTLA19H3), [CTLA01H3](#), [ENGA10H3](#), [ENGA11H3](#), [ENGB06H3](#), [ENGB07H3](#), [ENGB08H3](#), [ENGB09H3](#), [ENGB17H3](#), [ENGB19H3](#), [ENGB50H3](#), (ENGB51H3), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3), (HISA01H3), (HLTA01H3), [ACMA01H3](#), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

(*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (3.0 credits)

[CSCA08H3](#) Introduction to Computer Science I
[CSCA48H3](#) Introduction to Computer Science II
[CSCA67H3](#) Discrete Mathematics
[MATA23H3](#) Linear Algebra I
[MATA31H3](#) Calculus I for Mathematical Sciences
[MATA37H3](#) Calculus II for Mathematical Sciences

3. B-level courses (3.5 credits)

[CSCB07H3](#) Software Design
[CSCB09H3](#) Software Tools and Systems Programming
[CSCB36H3](#) Introduction to the Theory of Computation
[CSCB58H3](#) Computer Organization
[CSCB63H3](#) Design and Analysis of Data Structures
[MATB24H3](#) Linear Algebra II
[STAB52H3](#) Introduction to Probability

4. C-level courses (1.5 credits)

[CSCC43H3](#) Introduction to Databases
[CSCC69H3](#) Operating Systems
[CSCC73H3](#) Algorithm Design and Analysis

5. D-level courses (0.5 credit)

[CSCD03H3](#) Social Impact of Information Technology

A. Comprehensive Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (2.5 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC24H3](#) Principles of Programming Languages
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD37H3](#) Analysis of Numerical Algorithms for Computational Mathematics

7. Electives from courses on computers systems and applications (1.0 credit)**Two of:**

credit)

One of:

[MATC09H3](#) Introduction to Mathematical Logic
[MATC16H3](#) Coding Theory and Cryptography
[MATC32H3](#) Graph Theory and Algorithms for its Applications
[MATC44H3](#) Introduction to Combinatorics
 CSC438H Computability and Logic
 CSC448H Formal Languages and Automata
 CSC465H Formal Methods in Software Design

9. CSC, MAT, or STA elective (0.5 credit)

One of:

Any C- or D-level CSC, MAT, or STA course, excluding [MATC82H3](#), [MATC90H3](#), and [STAD29H3](#).

B. Software Engineering Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (3.0 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC01H3](#) Introduction to Software Engineering
[CSCC24H3](#) Principles of Programming Languages
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD01H3](#) Engineering Large Software Systems

7. Electives from courses on computer systems and applications (1.5 credits)

Three of:

[CSCC09H3](#) Programming on the Web
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD43H3](#) Database System Technology
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

C. Information Systems Stream

This stream requires a total of 29 courses (14.5 credits). In addition to the core requirements 1-5 common to all streams, 11 other distinct courses (5.5 credits) must be chosen satisfying all of the following requirements:

6. Required management courses (1.5 credits)

[MGTA01H3](#)/(MGTA03H3) Introduction to Management I
[MGTA02H3](#)/(MGTA04H3) Introduction to Management II
[MGHB02H3](#) Managing People and Groups in Organizations

7. Additional required mathematics and computer science courses (3.0 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC01H3](#) Introduction to Software Engineering
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD01H3](#) Engineering Large Software Systems
[CSCD43H3](#) Database System Technology

8. Electives from courses on computer systems and applications (1.0 credit)

Two of:

[CSCC09H3](#) Programming on the Web

[CSCC01H3](#) Introduction to Software Engineering
[CSCC09H3](#) Programming on the Web
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD01H3](#) Engineering Large Software Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD43H3](#) Database System Technology
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

8. Electives from courses related to the theory of computing (0.5 credit)

One of:

[MATC09H3](#) Introduction to Mathematical Logic
[MATC16H3](#) Coding Theory and Cryptography
[MATC32H3](#) Graph Theory and Algorithms for its Applications
[MATC44H3](#) Introduction to Combinatorics
 CSC438H Computability and Logic
 CSC448H Formal Languages and Automata
 CSC465H Formal Methods in Software Design

9. CSC, MAT, or STA elective (0.5 credit)

One of:

Any C- or D-level CSC, MAT, or STA course, excluding [MATC82H3](#), [MATC90H3](#), and [STAD29H3](#).

B. Software Engineering Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (3.0 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC01H3](#) Introduction to Software Engineering
[CSCC24H3](#) Principles of Programming Languages
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD01H3](#) Engineering Large Software Systems

7. Electives from courses on computer systems and applications (1.5 credits)

Three of:

[CSCC09H3](#) Programming on the Web
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD43H3](#) Database System Technology
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

C. Information Systems Stream

This stream requires a total of 29 courses (14.5 credits). In addition to the core requirements 1-5 common to all streams, 11 other distinct courses (5.5 credits) must be chosen satisfying all of the following requirements:

[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

D. Health Informatics Stream

This stream requires a total of 30 courses (15.0 credits). In addition to the core requirements 1-5 common to all streams, 12 other distinct courses (6.0 credits) must be chosen satisfying all of the following requirements:

6. Additional courses related to health studies (2 credits)

[PHLB09H3](#) Biomedical Ethics
[MGTA06H3](#) Introduction to Health Management*

One of: (courses on health policy and politics)

[HLTB16H3](#) Introduction to Public Health
[HLTB17H3](#) Conceptual Models of Health
[HLTB40H3](#) Health Policy and Health Systems
[HLTC40H3](#) Introduction to Health Economics

One of: (other courses on health studies)

[HLTB22H3](#) Biological Determinants of Health
[HLTC05H3](#) Social Determinants of Health*

(*) These courses have prerequisites not included in this program's requirements.

7. Additional required computer science and statistics courses (1.5 credits)

[CSCC01H3](#) Introduction to Software Engineering
[STAB57H3](#) Introduction to Statistics
[STAC50H3](#) Data Collection

8. Additional CSC, MAT and STA courses (2.5 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
 Four of:

any other C- or D-level CSC or STA courses, excluding [STAD29H3](#) **†

NOTE: Of the five courses taken to satisfy this requirement, at least one must be a D-level course, and at least three must be CSC courses.

** Some C- and D-level CSC and STA courses have prerequisites that are not included among the required courses for this stream. Review the prerequisites carefully before selecting courses for this requirement. One or more courses taken to satisfy this requirement can be prerequisites for other courses also taken to satisfy this requirement.

† Among the CSC courses that can be used to satisfy this requirement there are two categories of courses that are particularly well aligned with the goals of the Health Informatics stream: software engineering and systems, and computer science applications. Courses in the category of software engineering and systems include: [CSCC09H3](#), [CSCC85H3](#), [CSCD01H3](#), [CSCD43H3](#), and [CSCD58H3](#). Courses in the category of computer science applications include: [CSCC11H3](#), [CSCD18H3](#), and [CSCD84H3](#).

6. Required management courses (1.5 credits)

[MGTA01H3](#)/(MGTA03H3) Introduction to Business
[MGTA02H3](#)/(MGTA04H3) Managing the Business Organization
[MGHB02H3](#) Managing People and Groups in Organizations

7. Additional required mathematics and computer science courses (3.0 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
[CSCC01H3](#) Introduction to Software Engineering
[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics
[CSCC63H3](#) Computability and Computational Complexity
[CSCD01H3](#) Engineering Large Software Systems
[CSCD43H3](#) Database System Technology

8. Electives from courses on computer systems and applications (1.0 credit)

Two of:

[CSCC09H3](#) Programming on the Web
[CSCC11H3](#) Introduction to Machine Learning and Data Mining
[CSCC85H3](#) Introduction to Embedded Systems
[CSCD18H3](#) Computer Graphics
[CSCD27H3](#) Computer and Network Security
[CSCD58H3](#) Computer Networks
[CSCD84H3](#) Artificial Intelligence
 CSC318H Design of Interactive Computational Media
 CSC320H Visual Computing
 CSC321H Introduction to Neural Networks and Machine Learning
 CSC401H Natural Language Computing
 CSC469H Operating Systems Design and Implementation
 CSC485H Computational Linguistics
 CSC488H Compilers and Interpreters

D. Health Informatics Stream

This stream requires a total of 30 courses (15.0 credits). In addition to the core requirements 1-5 common to all streams, 12 other distinct courses (6.0 credits) must be chosen satisfying all of the following requirements:

6. Additional courses related to health studies (2 credits)

[PHLB09H3](#) Biomedical Ethics
~~[MGTA06H3](#)~~ Introduction to Health Management*

One of: (courses on health policy and politics)

[HLTB16H3](#) Introduction to Public Health
[HLTB17H3](#) Conceptual Models of Health
[HLTB40H3](#) Health Policy and Health Systems
~~[HLTC40H3](#)~~ Introduction to Health Economics

One of: (other courses on health studies)

[HLTB22H3](#) Biological Determinants of Health
~~[HLTC05H3](#)~~ Society, Health, and Illness*

(*) These courses have prerequisites not included in this program's requirements.

7. Additional required computer science and statistics courses (1.5 credits)

[CSCC01H3](#) Introduction to Software Engineering
[STAB57H3](#) Introduction to Statistics
[STAC50H3](#) Data Collection

8. Additional CSC, MAT and STA courses (2.5 credits)

[MATB41H3](#) Techniques of the Calculus of Several Variables I
 Four of:

any other C- or D-level CSC or STA courses, excluding [STAD29H3](#) **†

NOTE: Of the five courses taken to satisfy this requirement, at least one must be a D-level course, and at least three must be CSC courses.

** Some C- and D-level CSC and STA courses have prerequisites that are not included among the required courses for this stream. Review the prerequisites carefully before selecting courses for this requirement. One or more courses taken to satisfy this requirement can be prerequisites for other courses also taken to satisfy this requirement.

† Among the CSC courses that can be used to satisfy this requirement there are two categories of courses that are particularly well aligned with the goals of the Health Informatics stream: software engineering and

systems, and computer science applications. Courses in the category of software engineering and systems include: [CSCC09H3](#), [CSCC85H3](#), [CSCD01H3](#), [CSCD43H3](#), and [CSCD58H3](#). Courses in the category of computer science applications include: [CSCC11H3](#), [CSCD18H3](#), and [CSCD84H3](#).

E. Entrepreneurship Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (3.0 credits)

[CSCC01H3](#) Introduction to Software Engineering

[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics

[CSCC63H3](#) Computability and Computational Complexity

[CSCD01H3](#) Engineering Large Software Systems

[CSCD54H3](#) Technology Innovation and Entrepreneurship

[CSCD90H3](#) The Startup Sandbox

7. Electives from courses in computer science, mathematics, and statistics (1.5 credits)

Three of:

[MATB41H3](#) Techniques of the Calculus of Several Variables I

[STAB57H3](#) Introduction to Statistics

[CSCC09H3](#) Programming on the Web

[CSCC11H3](#) Introduction to Machine Learning and Data Mining

[CSCC24H3](#) Principles of Programming Languages

[CSCC85H3](#) Introduction to Embedded Systems

[CSCD18H3](#) Computer Graphics

[CSCD27H3](#) Computer and Network Security

[CSCD43H3](#) Database System Technology

[CSCD58H3](#) Computer Networks

[CSCD84H3](#) Artificial Intelligence

CSC318H Design of Interactive Computational Media

CSC320H Visual Computing

CSC321H Introduction to Neural Networks and Machine Learning

CSC401H Natural Language Computing

CSC469H Operating Systems Design and Implementation

CSC485H Computational Linguistics

CSC488H Compilers and Interpreters

Program notes/tables

Program: SCMAJ0571 - Compare

Code	SCMAJ0571	SCMAJ0571
Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	Women's and Gender Studies	Women's and Gender Studies
Title	MAJOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)	MAJOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca

Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete seven full credits as follows:

- [WSTA01H3](#) Introduction to Women's and Gender Studies and [WSTA03H3](#) Introduction to Theories of Feminism
- [WSTB05H3](#) Approaches to Research in Women's and Gender Studies
- [WSTB11H3](#) Intersections of Inequality
- [WSTC02H3](#) Research in the Community: Field Experience
- [WSTD01H3](#) Senior Project in Women's and Gender Studies or [WSTD03H3](#) Senior Seminar in Sex, Gender and the Body or [WSTD04H3](#) Senior Seminar in Gender, Equity and Human Rights or One D-level elective cross-listed with WST, with the approval of the program supervisor
- One further credit in WST
- 3.0 credits chosen from the courses identified in the Concentrations table below, of which at least 1.0 credit must be at the C- or D-level (students are cautioned that these courses may have pre-requisites that are not included in the program, and advised to check course descriptions in advance):

Note: To complete requirement #7, students must choose from the courses identified in the concentrations below (students are reminded they must have the pre-requisites). The concentrations are organized into themes to assist students in identifying their interests. There are no program requirements related to the concentrations. **Not all courses are offered every year. Please check the Timetable for availability.**

Concentrations:

Health, Sexualities, and the Gendered Body	Gender, Equity, and Human Rights
ANTC15H3 Genders and Sexualities ANTD01H3 The Body in Culture and Society ENGC76H3 (VPAC47H3) The Body in Literature and Film (ENGC77H3)/(VPAC48H3) The Body in Contemporary Culture: Theories and Representations GGRD10H3 Health and Sexuality HLTC02H3 Women and Health: Past and Present PSYD18H3 Psychology of Gender WSTB12H3 Women, Violence and Resistance	GASB20H3 Gender and Social Institutions in Asia MGHC23H3 (MGTC23H3) Diversity in the Workplace POLC94H3 Globalization, Gender and Development SOCC09H3 Sociology of Gender and Work SOCC38H3 Gender and Education WSTB10H3 Women, Power and Protest WSTC14H3 Women, Community and Policy Change
Representations and Constructions of Women and Gender	Gender, Local and Global Communities, and Diaspora
ENGB50H3 Women and Literature: Forging a Tradition ((ENGB51H3) or ENGC54H3) Gender and Genre ENGC34H3 Early Modern Women and Literature: 1500-1700	ANTC14H3 Feminism and Anthropology GASC20H3 Gendering Global Asia GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies

Program Requirements

Students must complete seven full credits as follows:

- [WSTA01H3](#) Introduction to Women's and Gender Studies and [WSTA03H3](#) Introduction to Theories of Feminism
- [WSTB05H3](#) Approaches to Research in Women's and Gender Studies
- [WSTB11H3](#) Intersections of Inequality
- [WSTC02H3](#) Research in the Community: Field Experience
- 1.0 further credit in WST courses
- 3.5 credits chosen from the courses identified in the Concentrations table below, of which at least 1.0 credit must be at the C- or D-level, and a further 0.5 credit must be at the D-level (students are cautioned that these courses may have pre-requisites that are not included in the program, and advised to check course descriptions in advance):

Note: To complete requirement #6, students must choose from the courses identified in the concentrations below (students are reminded they must have the pre-requisites). The concentrations are organized into themes to assist students in identifying their interests. There are no program requirements related to the concentrations. **Not all courses are offered every year. Please check the Timetable for availability.**

Concentrations:

Health, Sexualities, and the Gendered Body	Gender, Equity, and Human Rights
ANTC15H3 Genders and Sexualities ANTD01H3 The Body in Culture and Society ENGC76H3 (VPAC47H3) The Body in Literature and Film (ENGC77H3)/(VPAC48H3) The Body in Contemporary Culture: Theories and Representations GGRD10H3 Health and Sexuality HLTC02H3 Women and Health: Past and Present PSYD18H3 Psychology of Gender WSTB12H3 Women, Violence and Resistance	GASB20H3 Gender and Social Institutions in Asia MGHC23H3 (MGTC23H3) Diversity in the Workplace POLC94H3 Globalization, Gender and Development SOCC09H3 Sociology of Gender and Work SOCC38H3 Gender and Education WSTB10H3 Women, Power and Protest WSTC14H3 Women, Community and Policy Change
Representations and Constructions of Women and Gender	Gender, Local and Global Communities, and Diaspora
ENGB50H3 Women and Literature: Forging a Tradition ((ENGB51H3) or ENGC54H3) Gender and Genre ENGC34H3 Early Modern Women and Literature: 1500-1700 ENGC51H3 Contemporary Arab Women Writers ENGD80H3 Women and Canadian Writing LINC28H3 / WSTC28H3 Language and Gender	ANTC14H3 Feminism and Anthropology GASC20H3 Gendering Global Asia GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies GGRD09H3 Feminist Geographies HISC45H3 Immigrant and Race Relations in Canadian History HISD30H3 Gendering America HISD46H3 / WSTD46H3 Selected Topics in Canadian Women's

<p>ENGC51H3 Contemporary Arab Women Writers</p> <p>ENGD80H3 Women and Canadian Writing</p> <p>LINC28H3 Language and Gender</p> <p>PHLB13H3 Philosophy and Feminism</p> <p>PSYD18H3 Psychology of Gender</p> <p>SOCB22H3 Sociology of Gender</p> <p>VPHB57H3 Women in the Arts: Hot Mamas, Amazons, and Madonnas</p> <p>WSTB13H3 Gender, Media and Culture</p> <p>WSTC12H3 Writing the Self: Global Women's Autobiographies</p> <p>WSTC16H3 Criminal Women: Gender, Justice and the Media</p> <p>WSTC22H3 Women and Film</p>	<p>GGRD09H3 Feminist Geographies</p> <p>HISC45H3 Immigrant and Race Relations in Canadian History</p> <p>HISD30H3 Gendering America</p> <p>HISD46H3 Selected Topics in Canadian Women's History</p> <p>HISD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire</p> <p>SOCB49H3 Sociology of Family</p> <p>SOCC24H3 Sociology of Gender and Families</p> <p>SOCC29H3 Special Topics in Sociology of Family</p> <p>WSTC10H3 Women and Development</p> <p>WSTC11H3 Applied Studies in Women and Development</p> <p>WSTC13H3 Women, Gender and Islam</p> <p>WSTC19H3 Gender in East Asian Science and Technology</p> <p>WSTC20H3 Women and Environments</p> <p>WSTC21H3 Gender, Health, Science in Transnational Perspective</p>	<p>PHLB13H3 Philosophy and Feminism</p> <p>PSYD18H3 Psychology of Gender</p> <p>SOCB22H3 Sociology of Gender</p> <p>VPHB57H3 Women in the Arts: Hot Mamas, Amazons, and Madonnas</p> <p>WSTB13H3 Gender, Media and Culture</p> <p>WSTC12H3 Writing the Self: Global Women's Autobiographies</p> <p>WSTC16H3 Criminal Women: Gender, Justice and the Media</p> <p>WSTC22H3 Women and Film</p>	<p>History</p> <p>HISD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire</p> <p>HISD16H3/WSTD16H3 Socialist Feminism in Global Context</p> <p>SOCB49H3 Sociology of Family</p> <p>SOCC24H3 Sociology of Gender and Families</p> <p>SOCC29H3 Special Topics in Sociology of Family</p> <p>WSTC10H3 Women and Development</p> <p>WSTC11H3 Applied Studies in Women and Development</p> <p>WSTC13H3 Women, Gender and Islam</p> <p>WSTC20H3 Women and Environments</p> <p>WSTD10H3 Storytelling and Social Change</p>
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Program notes/tables

Program: SCMINAFS - Compare

Code	SCMINAFS	SCMINAFS
Owning Organizations	AFS,HCSSC	AFS,HCSSC
Sections	African Studies	African Studies
Title	MINOR PROGRAM IN AFRICAN STUDIES (ARTS)	MINOR PROGRAM IN AFRICAN STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: 416-287-7184 Email: afs-undergrad-advisor@utsc.utoronto.ca</i></p>	<p><i>Undergraduate Advisor: 416-287-7184 Email: afs-undergrad-advisor@utsc.utoronto.ca</i></p>
Program Requirements	<p>Students must complete four full credits, as follows:</p> <ol style="list-style-type: none"> AFSA01H3 Africa in the World: An Introduction AFSB01H3 African Worldviews 1.0 credit from the following (students should check course descriptions for prerequisites): AFSA03H3 Experiencing Development in Africa AFSB05H3/ANTB05H3 Culture and Society in Africa AFSB50H3 Africa in the Era of the Slave Trade AFSB51H3 Twentieth Century Africa AFSC30H3 Language and Society in the Arab World 2.0 credits from the list below; at least 1.0 credit must be at the C- or D-level (students should check course descriptions for prerequisites): AFSB50H3 Africa in the Era of the Slave Trade (if not used in Requirement 2) AFSB51H3 Twentieth Century Africa (if not used in Requirement 2) AFSC30H3 Language and Society in the Arab World (if not used in Requirement 2) AFSB05H3/ANTB05H3 Culture and Society in Africa (if not used in Requirement 2) (ANTC06H3) African Cultures and Societies II: Case Studies CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt ENGB17H3 Contemporary Literature from the Caribbean ENGC51H3 Contemporary Arab Women Writers ENGC72H3 Contemporary Literature from Africa ENGD13H3 Rap Poetics ENGD08H3 Topics in African Literature (ENGD61H3) James Baldwin, the African American Experience, and the Liberal Imagination FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREB35H3 Francophone Literature FREC47H3 Pidgin and Creole Languages FRED14H3 Advanced Topics in the Literature of Québec GGRB28H3 Geographies of Disease GGRC25H3 Land Reform and Development HISC52H3 A History of Ethiopia HISC55H3 War and Society in Modern Africa HISD50H3 Southern Africa: Conquest and Resistance, 1652-1900 HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation HISD52H3 East African Societies in Transition (LGGA40H3) Introductory Modern Standard Arabic I (LGGA41H3) Introductory Modern Standard Arabic II (LGBB42H3) Intermediate Modern Standard Arabic I (LGBB43H3) Intermediate Modern Standard Arabic II (LGBB45H3) Modern Standard Arabic I for Students with Prior Background POLC80H3 International Relations of Africa VPHB50H3 Africa through the Photographic Lens VPHB65H3 Exhibiting Africa: Spectacle and the Politics of Representation WSTC13H3 Women, Gender and Islam 	<p>Students must complete 4.0 credits, 1.0 credit of which must be at the C- or D-level:</p> <ol style="list-style-type: none"> AFSA01H3 Africa in the World: An Introduction AFSB01H3 African Worldviews 1.0 credit from the following (students should check course descriptions for prerequisites): AFSA03H3 Experiencing Development in Africa AFSB05H3/ANTB05H3 Culture and Society in Africa AFSB50H3 Africa in the Era of the Slave Trade AFSB51H3 Twentieth Century Africa AFSC30H3 Language and Society in the Arab World AFSC52H3 Ethiopia: Seeing History AFSC55H3 War and Society in Modern Africa AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation 2.0 credits from the list below (students should check course descriptions for prerequisites): AFSB50H3 Africa in the Era of the Slave Trade (if not used in Requirement 2) AFSB51H3 Twentieth Century Africa (if not used in Requirement 2) AFSC30H3 Language and Society in the Arab World (if not used in Requirement 2) AFSC52H3/HISC52H3 Ethiopia: Seeing History (if not used in Requirement 2) AFSC55H3/HISC55H3 War and Society in Modern Africa (if not used in Requirement 2) AFSD51H3/HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation (if not used in Requirement 2) AFSB05H3/ANTB05H3 Culture and Society in Africa (if not used in Requirement 2) (ANTC06H3) African Cultures and Societies II: Case Studies CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt ENGB17H3 Contemporary Literature from the Caribbean ENGC51H3 Contemporary Arab Women Writers ENGC72H3 Contemporary Literature from Africa ENGD13H3 Rap Poetics ENGD08H3 Topics in African Literature (ENGD61H3) James Baldwin, the African American Experience, and the Liberal Imagination FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREB35H3 Francophone Literature FREC47H3 Pidgin and Creole Languages FRED14H3 Advanced Topics in the Literature of Québec GGRB28H3 Geographies of Disease GGRC25H3 Land Reform and Development HISD50H3 Southern Africa: Conquest and Resistance, 1652-1900 HISD52H3 East African Societies in Transition (LGGA40H3) Introductory Modern Standard Arabic I (LGGA41H3) Introductory Modern Standard Arabic II (LGBB42H3) Intermediate Modern Standard Arabic I (LGBB43H3) Intermediate Modern Standard Arabic II (LGBB45H3) Modern Standard Arabic I for Students with Prior Background

Note: Not all courses in Requirement #2 and #3 are offered every year.

[POLC80H3](#) International Relations of Africa

[VPHB50H3](#) Africa through the Photographic Lens

[VPHB65H3](#) Exhibiting Africa: Spectacle and the Politics of Representation

[WSTC13H3](#) Women, Gender and Islam

Note: Not all courses in Requirement #2 and #3 are offered every year.

Program notes/tables

Program: SCMIN2049 - Compare

Code	SCMIN2049	SCMIN2049
Owning Organizations	CLA,ACMSC	CLA,ACMSC
Sections	Classical Studies	Classical Studies
Title	MINOR PROGRAM IN CLASSICAL STUDIES (ARTS)	MINOR PROGRAM IN CLASSICAL STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: 416-287-7184 Email: classics-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete four full credits, as follows:</p> <p>1. Introduction CLAA04H3 The Ancient Mediterranean World</p> <p>2. History and Culture CLAB05H3 History and Culture of the Greek World CLAB06H3 History and Culture of the Roman World</p> <p>3. Mythology and Religion CLAA06H3 Ancient Mythology II: Greece and Rome</p> <p>4. Literature (0.5 credit from the following courses) CLAC11H3 Classical Literature I: Poetry CLAC12H3 Classical Literature II: Prose</p> <p>5. Electives (1.5 full credits from the following courses, including at least 1.0 full credit at the C or D-level; before choosing their electives, students need to take at least 1.0 full credit at the A-level, 1.0 full credit at the B-level, and 0.5 credit at the C-level): <i>Classical Studies</i> CLAA05H3 Ancient Mythology I: Mesopotamia and Egypt (CLAB10H3) Greek and Latin for Scientists CLAB20H3 The Classical World in Film CLAC01H3 Selected Topics in Classical Literature CLAC02H3 Selected Topics in Classical Civilization CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt CLAC11H3 Classical Literature I: Poetry if not taken as a required course CLAC12H3 Classical Literature II: Prose if not taken as a required course CLAC22H3 Religions of the Ancient Mediterranean CLAC24H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds CLAD05H3 Water Management in the Ancient Mediterranean World</p> <p><i>Art History</i> VPHB41H3 The Human Figure in Greek Art (8th-4th cent. B.C.) VPHB52H3 Ancient Art and Architecture (ca 900 B.C.-300 A.D.) VPHB76H3 Religion in the Arts: The Judeo-Christian Traditions VPHC46H3 Topics in Art of the Ancient World VPHC53H3 The Silk Routes</p> <p><i>English</i> ENGB30H3 Classical Myth and Literature ENGC16H3 The Bible and Literature I ENGC17H3 The Bible and Literature II ENGC26H3 Drama: Tragedy ENGC27H3 Drama: Comedy</p> <p><i>Languages</i> (LGGA50H3) Introductory Latin I (LGGA51H3) Introductory Latin II (LGGA54H3) Introductory Sanskrit I (LGGA55H3) Introductory Sanskrit II (LGBB54H3) Intermediate Sanskrit I (LGBB55H3) Intermediate Sanskrit II</p> <p><i>Music</i> VPMC93H3 Orpheus</p> <p><i>Philosophy</i></p>	<p><i>Undergraduate Advisor: 416-287-7184 Email: classics-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete four full credits, as follows:</p> <p>1. Introduction CLAA04H3 The Ancient Mediterranean World</p> <p>2. History and Culture CLAB05H3 History and Culture of the Greek World CLAB06H3 History and Culture of the Roman World</p> <p>3. Mythology and Religion CLAA06H3 Ancient Mythology II: Greece and Rome</p> <p>4. Literature (0.5 credit from the following courses) CLAC11H3 Classical Literature I: Poetry CLAC12H3 Classical Literature II: Prose</p> <p>5. Electives (1.5 full credits from the following courses, including at least 1.0 full credit at the C or D-level; before choosing their electives, students need to take at least 1.0 full credit at the A-level, 1.0 full credit at the B-level, and 0.5 credit at the C-level): <i>Classical Studies</i> CLAA05H3 Ancient Mythology I: Mesopotamia and Egypt (CLAB10H3) Greek and Latin for Scientists CLAB20H3 The Classical World in Film CLAC01H3 Selected Topics in Classical Literature CLAC02H3 Selected Topics in Classical Civilization CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt CLAC11H3 Classical Literature I: Poetry if not taken as a required course CLAC12H3 Classical Literature II: Prose if not taken as a required course CLAC22H3 Religions of the Ancient Mediterranean CLAC24H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds CLAD05H3 Water Management in the Ancient Mediterranean World</p> <p><i>Art History</i> VPHB41H3 The Human Figure in Greek Art (8th-4th cent. B.C.) VPHB52H3 Ancient Art and Architecture (ca 900 B.C.-300 A.D.) VPHB76H3 Religion in the Arts: The Judeo-Christian Traditions VPHC46H3 Topics in Art of the Ancient World VPHC53H3 The Silk Routes</p> <p><i>English</i> ENGB30H3 Classical Myth and Literature ENGC16H3 The Bible and Literature I ENGC17H3 The Bible and Literature II ENGC26H3 Drama: Tragedy ENGC27H3 Drama: Comedy</p> <p><i>Languages</i> (LGGA50H3) Introductory Latin I (LGGA51H3) Introductory Latin II (LGGA54H3) Introductory Sanskrit I (LGGA55H3) Introductory Sanskrit II (LGBB54H3) Intermediate Sanskrit I (LGBB55H3) Intermediate Sanskrit II</p> <p><i>Philosophy</i> PHLB16H3 Political Philosophy: Ancient Greece and the Middle Ages PHLB31H3 Introduction to Ancient Philosophy PHLC32H3 Ancient Philosophy</p>

PHLB16H3 Political Philosophy: Ancient Greece and the Middle Ages

[PHLB31H3](#) Introduction to Ancient Philosophy

[PHLC32H3](#) Ancient Philosophy

Religion

(RLGB01H3) The "Holy Book" in Judaism, Christianity and Islam

(RLGC01H3) The Five Books of Moses

(RLGC02H3) The Gospels

(RLGC03H3) Paul and the Invention of Christianity

(RLGC04H3) Hindu Epic

[RLGC05H3](#) The Qu'ran in Interpretive and Historical Context

Anthropology

(ANTB04H3) Artifacts and Prehistory

(ANTB12H3) Introduction to World Prehistory: The Rise of Civilization

Note: Students who were enrolled at UTSC prior to the 2009 Summer Session may substitute one of (CLAA02H3) or (CLAA03H3) for

[CLAA06H3](#) in Requirement 3. Students who have both (CLAA02H3) &

(CLAA03H3) may substitute one of the courses for [CLAA04H3](#) in

Requirement 1.

Religion

(RLGB01H3) The "Holy Book" in Judaism, Christianity and Islam

(RLGC01H3) The Five Books of Moses

(RLGC02H3) The Gospels

(RLGC03H3) Paul and the Invention of Christianity

(RLGC04H3) Hindu Epic

[RLGC05H3](#) The Qu'ran in Interpretive and Historical Context

Anthropology

(ANTB04H3) Artifacts and Prehistory

(ANTB12H3) Introduction to World Prehistory: The Rise of Civilization

Note: Students who were enrolled at UTSC prior to the 2009 Summer Session may substitute one of (CLAA02H3) or (CLAA03H3) for [CLAA06H3](#) in Requirement 3. Students who have both (CLAA02H3) & (CLAA03H3) may substitute one of the courses for [CLAA04H3](#) in Requirement 1.

Program notes/tables

Program: SCMAJ0615 - Compare

Code	SCMAJ0615	SCMAJ0615
Owning Organizations	VPH,ACMSC	VPH,ACMSC
Sections	Art History and Visual Culture	Art History and Visual Culture
Title	MAJOR PROGRAM IN ART HISTORY (ARTS)	MAJOR PROGRAM IN ART HISTORY AND VISUAL CULTURE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<i>Undergraduate Advisor Email:</i> art-history-program-supervisor@utsc.utoronto.ca	<i>Undergraduate Advisor Email:</i> art-history-program-supervisor@utsc.utoronto.ca

Program Requirements

Students must complete 7.5 full credits as follows:

- [ACMA01H3](#) plus one-half credit at the A-level in Art History.
- [VPHB39H3](#)
- 3.5 full credits at the B-level in Art History ([VPAB05H3](#) & [VPAB06H3](#)) may be used towards this requirement).
- 2.5 full credits in Art History at the C-/D-level (which may include [VPAC47H3](#), [VPAC48H3](#), [VPAC89H3](#), and/or [HISC52H3](#)).
- Requirements # 3 and # 4 together must include at least one full credit dealing with periods prior to 1800 and one full credit dealing with periods after 1800, and at least one half credit on the art of Africa and Asia.

Courses dealing with periods prior to 1800: [VPHB41H3](#), [VPHB42H3](#), [VPHB52H3](#), [VPHB53H3](#), [VPHB63H3](#), [VPHB64H3](#), [VPHB74H3](#), [VPHC42H3](#), [VPHC46H3](#), [VPHC53H3](#), [VPHC63H3](#), [VPHD44H3](#), as well as ([VPAC89H3](#)).

Courses dealing with periods after 1800: [VPHB46H3](#), [VPHB57H3](#), [VPHB58H3](#), [VPHB59H3](#), [VPHB60H3](#), [VPHC45H3](#), [VPHC68H3](#), [VPHC73H3](#), [VPHD43H3](#), as well as ([VPAC47H3](#)) and ([VPAC48H3](#)).

Courses on the art of Africa: [VPHB50H3](#), [VPHB65H3](#)

Courses on the art of Asia: [VPHB73H3](#), [VPHB77H3](#), [VPHC74H3](#), [VPHD47H3](#)

Courses in which content may vary, and which may deal with the art of any place or period:

[VPHB61H3](#), [VPHB67H3](#), [VPHB68H3](#), [VPHB75H3](#), [VPHB76H3](#), [VPHC49H3](#), [VPHC51H3](#), [VPHC54H3](#), and [VPHD45H3](#).

Students interested in curatorial studies should include in their programs [VPHB71H3](#), [VPHB72H3](#), [VPHC54H3](#), [VPHC72H3](#), [VPHD43H3](#), and [VPHD44H3](#).

Program Requirements

This program requires the completion of 7.0 credits in Art History and Visual Culture (VPH) as follows:

1. Courses at the A-level (0.5 credit):

[VPHA46H3](#) Ways of Seeing: Introduction to Art Histories

2. Courses at the B-level (1.0 credit):

[VPHB39H3](#) Ten Key Words in Art History: Unpacking Methodology
[ACMB01H3](#) Critical Reading, Thinking and Writing for ACM Programs

3. Courses at the C-level (1.5 credits):

[VPHC49H3](#) Advanced Studies in Art Theory
[VPHC54H3](#) Art Writing
[VPHC72H3](#) Art, the Museum, and the Gallery

4. Courses at the D-level (0.5 credit):

[VPHD48H3](#) Advanced Seminar in Art History and Visual Culture

5. 3.5 additional credits in VPH courses, including:

- At least 1.5 credit must be in courses at the C- or D-level;
- Must include diversity in the time-period and cultural geography;
- Must include at least 1.0 credit dealing with periods prior to 1800;
- Must include at least 1.0 credit dealing with periods after 1800; and
- Must include 0.5 credit dealing with the arts of Asia, Africa, or the Diaspora.

Courses dealing with periods prior to 1800: [VPHB53H3](#), [VPHB63H3](#), [VPHB64H3](#), [VPHB74H3](#), [VPHC41H3](#), [VPHC42H3](#), [VPHC53H3](#), [VPHC63H3](#), ([VPHD44H3](#))

Courses dealing with periods after 1800: [VPHB58H3](#), [VPHB59H3](#), [VPHC45H3](#), [VPHC68H3](#), [VPHC73H3](#), ([VPHD43H3](#)), as well as ([VPAC47H3](#)) and ([VPAC48H3](#)).

Courses on the art of Africa: [VPHB50H3](#), [VPHB65H3](#).

Courses on the art of Asia: [VPHB73H3](#), [VPHB77H3](#), [VPHC74H3](#).

Courses in which content may vary, and which may deal with the art of any place or period: [VPHB68H3](#), [VPHB78H3](#), [VPHB79H3](#), [VPHC49H3](#), [VPHC51H3](#), [VPHC54H3](#), [VPHC75H3](#) and [VPHD48H3](#).

Students interested in curatorial studies courses should consider the Minor in Curatorial Studies (Arts).

Program notes/tables

Program: SCMAJMDS - Compare

Code	SCMAJMDS	SCMAJMDS
Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	Media Studies	Media Studies
Title	MAJOR PROGRAM IN MEDIA STUDIES (ARTS)	MAJOR PROGRAM IN MEDIA STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 8.0 full credits including 2.0 credits at the C- or D-level:</p> <p>1. 1.5 credits: ACMA01H3 Exploring Key Questions in the Humanities MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media</p> <p>2. 0.5 credit from the following: MDSB05H3 Media and Globalization MDSB25H3 Political Economy of Media</p> <p>3. 0.5 credit from the following: MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>4. 1.0 credit from the following: MDSC01H3 Theories in Media Studies MDSC02H3 Media, Identities and Politics MDSC53H3 Anthropology of Media and Publics</p> <p>5. 0.5 credit from the following: MDS01H3 Senior Seminar: Topics in Media and Arts MDS02H3 Senior Seminar: Topics in Media and Society</p> <p>6. 3.5 additional credits in MDS courses</p> <p>7. 0.5 credit from the following: ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II ENGC56H3 Literature and Media: From Page to Screen HISB12H3 The Classical World in Film HISC08H3 Colonialism on Film PSCA01H3 Communicating Science: Film, Media, Journalism, and Society SOCC44H3 Media and Society VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts VPMB97H3 Film Music VPMC97H3 Music, Technologies, Media WSTB13H3 Gender, Media and Culture WSTC16H3 Criminal Women: Gender, Justice and the Media WSTC22H3 Women and Film</p> <p>NOTE: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).</p>	<p><i>Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 8.0 full credits including 2.0 credits at the C- or D-level:</p> <p>1. 1.5 credits: ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media</p> <p>2. 0.5 credit from the following: MDSB05H3 Media and Globalization MDSB25H3 Political Economy of Media</p> <p>3. 0.5 credit from the following: MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>4. 1.0 credit from the following: MDSC01H3 Theories in Media Studies MDSC02H3 Media, Identities and Politics MDSC53H3 Anthropology of Media and Publics</p> <p>5. 0.5 credit from the following: MDS01H3 Senior Seminar: Topics in Media and Arts MDS02H3 Senior Seminar: Topics in Media and Society</p> <p>6. 3.5 additional credits in MDS courses</p> <p>7. 0.5 credit from the following: ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II ENGC56H3 Literature and Media: From Page to Screen HISB12H3 The Classical World in Film HISC08H3 Colonialism on Film PSCA01H3 Communicating Science: Film, Media, Journalism, and Society SOCC44H3 Media and Society VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts VPMB97H3 Film Music VPMC97H3 Music, Technologies, Media WSTB13H3 Gender, Media and Culture WSTC16H3 Criminal Women: Gender, Justice and the Media WSTC22H3 Women and Film</p> <p>NOTE: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).</p>

Program notes/tables

Program: SCSPE1160M - Compare

Code	SCSPE1160M	SCSPE1160M
Owning	PSY,PSYSC	PSY,PSYSC
Organizations		
Sections	Psychology	Psychology
Title	SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)	SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>The program requires completion of 12.5 credits as follows, including at least 4.0 credits at the C- or D-level, of which at least 1.0 must be at the D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. Statistical Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB07H3 Data Analysis in Psychology <i>and</i> b. PSYC08H3 Advanced Data Analysis in Psychology 3. Laboratory Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB01H3 Psychological Research Laboratory <i>and</i> b. PSYC37H3 Psychological Assessment 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit) 5. History & Approaches (0.5 credit) <ol style="list-style-type: none"> a. PSYC84H3 Psychology & the Scientific Mind <i>or</i> b. PSYC85H3 History of Psychology 6. PSYB30H3 Personality <i>and</i> PSYB32H3 Abnormal Psychology (1.0 credit) 7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits): <ol style="list-style-type: none"> a. Psycho-Social Grouping <ul style="list-style-type: none"> PSYB45H3 Behaviour Modification: Origins and Applications PSYC18H3 The Psychology of Emotion PSYC35H3 Advanced Personality Psychology PSYC36H3 Psychotherapy PSYC39H3 Psychology and the Law b. Psycho-Biological Grouping <ul style="list-style-type: none"> PSYB64H3 Physiological Psychology PSYB65H3 Human Brain & Behaviour PSYC31H3 Clinical Neuropsychology PSYC33H3 Neuropsychological Rehabilitation PSYC62H3 Drugs and the Brain 8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit) <ul style="list-style-type: none"> PSYD30H3 Current topics in Personality Psychology PSYD32H3 Personality Disorders PSYD33H3 Current topics in Abnormal Psychology PSYD35H3 Clinical Psychopharmacology 9. Additional credits in Psychology (1.5 credits) 10. Students must select 2.0 credits from the following courses: <ul style="list-style-type: none"> HLTB17H3 Conceptual Models of Health HLTB40H3 Health Policy and Health Systems HLTC05H3 Society, Health and Illness HLTC22H3 Health, Aging, and the Life Cycle HLTC23H3 Issues in Child Health and Development HLTC42H3 Emerging Health Issues and Policy Needs IDSB04H3 Introduction to International/Global Health IDSC11H3 Issues in Global and International Health LINB20H3 Sociolinguistics PHLA11H3 Introduction to Ethics PHLB07H3 Ethics PHLB09H3 Biomedical Ethics SOCB48H3 Family and Society SOCB50H3 Deviance and Normality I 	<p>Program Requirements</p> <p>The program requires completion of 12.5 credits as follows, including at least 4.0 credits at the C- or D-level, of which at least 1.0 must be at the D-level:</p> <ol style="list-style-type: none"> 1. PSYA01H3 Introductory Psychology: Part I <i>and</i> PSYA02H3 Introductory Psychology: Part II (1.0 credit) 2. Statistical Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB07H3 Data Analysis in Psychology <i>and</i> b. PSYC08H3 Advanced Data Analysis in Psychology, PSYC09H3 Applied Multiple Regression in Psychology, PSYC09H3 Applied Multiple Regression in Psychology 3. Laboratory Methods (1.0 credit) <ol style="list-style-type: none"> a. PSYB01H3 Psychological Research Laboratory <i>and</i> b. PSYC37H3 Psychological Assessment 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit) 5. PSYC85H3 History of Psychology 6. PSYB30H3 Personality <i>and</i> PSYB32H3 Abnormal Psychology (1.0 credit) 7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits): <ol style="list-style-type: none"> a. Psycho-Social Grouping <ul style="list-style-type: none"> PSYB45H3 Behaviour Modification: Origins and Applications PSYC18H3 The Psychology of Emotion PSYC35H3 Advanced Personality Psychology PSYC36H3 Psychotherapy PSYC39H3 Psychology and the Law b. Psycho-Biological Grouping <ul style="list-style-type: none"> PSYB64H3 Physiological Psychology PSYB65H3 Human Brain & Behaviour PSYC31H3 Clinical Neuropsychology PSYC33H3 Neuropsychological Rehabilitation PSYC62H3 Drugs and the Brain 8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit) <ul style="list-style-type: none"> PSYD30H3 Current topics in Personality Psychology PSYD32H3 Personality Disorders PSYD33H3 Current topics in Abnormal Psychology PSYD35H3 Clinical Psychopharmacology 9. Additional credits in Psychology (1.5 credits) 10. Students must select 2.0 credits from the following courses: <ul style="list-style-type: none"> HLTB17H3 Conceptual Models of Health HLTB40H3 Health Policy and Health Systems HLTC05H3 Society, Health and Illness HLTC22H3 Health, Aging, and the Life Cycle HLTC23H3 Issues in Child Health and Development HLTC42H3 Emerging Health Issues and Policy Needs IDSB04H3 Introduction to International/Global Health IDSC11H3 Issues in Global and International Health LINB20H3 Sociolinguistics PHLA11H3 Introduction to Ethics PHLB07H3 Ethics PHLB09H3 Biomedical Ethics PHLB81H3 Theories of Mind

[SOCB51H3](#) Deviance and Normality II
[SOCC30H3](#) Criminal Behaviour

[SOCB22H3](#) Sociology of Gender
[SOCB49H3](#) Sociology of Family
[SOCB50H3](#) Deviance and Normality I
[SOCB51H3](#) Deviance and Normality II

Program
notes/tables

Program: SCSPE1160N - Compare

Code	SCSPE1160N	SCSPE1160N
Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	Psychology	Psychology
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description		

The Program combines academic studies in the field of mental health with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in mental health. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe and assist psychologists engaged in clinical practice, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings may provide the opportunity for clinical engagement under close supervision. For information on admissions, fees, work terms and standing in the Program, please see the [Co-operative Programs](#) section of this *Calendar*.

Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the [Co-operative Programs](#) section in this *Calendar*.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsoc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including [PSYA01H3](#) & [PSYA02H3](#) plus a cumulative GPA of at least 2.75.

Program Requirements**Work Terms**

The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including [PSYB01H3](#), [PSYB07H3](#), [PSYB32H3](#), [PSYB65H3](#), [PSYC02H3](#), [PSYC08H3](#), and [PSYC32H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below, are to be taken before the first work term. To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements

The program requires 12.5 credits as follows, including at least 4.0 credits at the C-level, of which at least 1.0 credit must be at the D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and
[PSYA02H3](#) Introductory Psychology: Part II
(1.0 credit)
2. Statistical Methods (1.0 credit)
 - a. [PSYB07H3](#) Data Analysis in Psychology*
 - and
 - b. [PSYC08H3](#) Advanced Data Analysis in Psychology*
3. Laboratory Methods (1.5 credits)
 - a. [PSYB01H3](#) Psychological Research Laboratory*
 - and
 - b. [PSYC32H3](#) Clinical Neuropsychology Laboratory*
 - and
 - c. [PSYC37H3](#) Psychological Assessment**
4. [PSYC02H3](#) Scientific Communication in Psychology*
(0.5 credit)
5. [History & Approaches](#) (0.5 credit)

The Program combines academic studies in the field of mental health with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in mental health. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe and assist psychologists engaged in clinical practice, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings may provide the opportunity for clinical engagement under close supervision. For information on admissions, fees, work terms and standing in the Program, please see the [Co-operative Programs](#) section of this *Calendar*.

Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the [Co-operative Programs](#) section in this *Calendar*.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at:

www.utsoc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including [PSYA01H3](#) & [PSYA02H3](#) plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Mental Health Studies, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Psychology, or vice-versa.

Program Requirements**Work Terms**

The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including [PSYB01H3](#), [PSYB07H3](#), [PSYB32H3](#), [PSYB65H3](#), [PSYC02H3](#), [PSYC08H3](#), and [PSYC32H3](#). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below, are to be taken before the first work term.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements

The program requires 12.5 credits as follows, including at least 4.0 credits at the C-level, of which at least 1.0 credit must be at the D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and
[PSYA02H3](#) Introductory Psychology: Part II
(1.0 credit)
2. Statistical Methods (1.0 credit)
 - a. [PSYB07H3](#) Data Analysis in Psychology*
 - and
 - b. [PSYC08H3](#) Advanced Data Analysis in Psychology* or [PSYC09H3](#) Applied Multiple Regression in Psychology*

- a. [PSYC84H3](#) Psychology & the Scientific Mind
or
- b. [PSYC85H3](#) History of Psychology
6. [PSYB30H3](#) Personality
and
[PSYB32H3](#) Abnormal Psychology*
(1.0 credit)
7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits):
- a. **Psycho-Social Grouping**
[PSYB45H3](#) Behaviour Modification
[PSYC18H3](#) The Psychology of Emotion
[PSYC35H3](#) Advanced Personality Psychology
[PSYC36H3](#) Psychotherapy
[PSYC39H3](#) Psychology and the Law
- b. **Psycho-Biological Grouping**
[PSYB64H3](#) Physiological Psychology
[PSYB65H3](#) Human Brain & Behaviour*
[PSYC33H3](#) Neuropsychological Rehabilitation**
[PSYC62H3](#) Drugs and the Brain
8. Students are required to take 1.0 D-level credit, with at least 0.5 credit from the following list:
[PSYD30H3](#) Current topics in Personality Psychology
[PSYD33H3](#) Current topics in Abnormal Psychology
[PSYD35H3](#) Clinical Psychopharmacology
9. Additional credits in Psychology (1.0 credits)
10. Students must select 2.0 credits from the following courses:
[HLTB17H3](#) Conceptual Models of Health
[HLTB40H3](#) Health Policy and Health Systems
[HLTC22H3](#) Health, Aging, and the Life Cycle
[HLTC23H3](#) Issues in Child Health and Development
[LINB20H3](#) Sociolinguistics
[MGTA06H3](#) Introduction to Health Management
[PHLA11H3](#) Introduction to Ethics
[PHLB07H3](#) Ethics
[PHLB09H3](#) Biomedical Ethics
([SOCB48H3](#)) Family and Society
[SOCB50H3](#) Deviance and Normality I
[SOCB51H3](#) Deviance and Normality II
[SOCC30H3](#) Criminal Behaviour

* These credits must be successfully completed before the first work term.

** These credits must be successfully completed before the second work term.

3. Laboratory Methods (1.5 credits)
- a. [PSYB01H3](#) Psychological Research Laboratory*
and
b. [PSYC32H3](#) Clinical Neuropsychology Laboratory*
and
c. [PSYC37H3](#) Psychological Assessment**
4. [PSYC02H3](#) Scientific Communication in Psychology*
(0.5 credit)
5. [PSYC85H3](#) History of Psychology
6. [PSYB30H3](#) Personality
and
[PSYB32H3](#) Abnormal Psychology*
(1.0 credit)
7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits):
- a. **Psycho-Social Grouping**
[PSYB45H3](#) Behaviour Modification
[PSYC18H3](#) The Psychology of Emotion
[PSYC35H3](#) Advanced Personality Psychology
[PSYC36H3](#) Psychotherapy
[PSYC39H3](#) Psychology and the Law
- b. **Psycho-Biological Grouping**
[PSYB64H3](#) Physiological Psychology
[PSYB65H3](#) Human Brain & Behaviour*
[PSYC33H3](#) Neuropsychological Rehabilitation**
[PSYC62H3](#) Drugs and the Brain
8. Students are required to take 1.0 D-level credit, with at least 0.5 credit from the following list:
[PSYD30H3](#) Current topics in Personality Psychology
[PSYD32H3](#) Personality Disorders
[PSYD33H3](#) Current topics in Abnormal Psychology
[PSYD35H3](#) Clinical Psychopharmacology
9. Additional credits in Psychology (1.0 credits)
10. Students must select 2.0 credits from the following courses:
[HLTB17H3](#) Conceptual Models of Health
[HLTB40H3](#) Health Policy and Health Systems
[HLTC05H3](#) Society, Health and Illness
[HLTC22H3](#) Health, Aging, and the Life Cycle
[HLTC23H3](#) Issues in Child Health and Development
[HLTC42H3](#) Emerging Health Issues and Policy Needs
[IDSB04H3](#) Introduction to International/Global Health
[IDSC11H3](#) Issues in Global and International Health
[LINB20H3](#) Sociolinguistics
[PHLA11H3](#) Introduction to Ethics
[PHLB07H3](#) Ethics
[PHLB09H3](#) Biomedical Ethics
[PHLB81H3](#) Theories of Mind
[SOCB22H3](#) Sociology of Gender
[SOCB49H3](#) Sociology of Family
[SOCB50H3](#) Deviance and Normality I
([SOCB51H3](#)) Deviance and Normality II

* These credits must be successfully completed before the first work term.

** These credits must be successfully completed before the second work term.

Program notes/tables

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2016-17 Curriculum Cycle: Course Title Changes

March 9, 2016

Course Title Changes

Course Code	Existing Title	New Title
ACMA01H3	Exploring Key Questions in the Humanities	Exploring Key Questions in Arts, Culture and Media
BIOD48H3	Ornithology and Herpetology	Ornithology
CTLA02H3	Exploring Cross-Cultural Perspectives in Academic Contexts	Exploring Inter-Cultural Perspectives in Academic Contexts
EESC18H3	The Great Lakes: An Introduction to Physical Limnology	Limnology
EESC19H3	Marine Systems	Oceanography
EESC30H3	Microbial Biogeochemistry	Environmental Microbiology
EESD13H3	Environmental Law and Ethics	Environmental Law, Policy and Ethics
EESD15H3	Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments	Fundamentals of Site Remediation
FREB18H3	French in the Workplace	Business French
GASB77H3	Asia in Display	Modern Asian Art
GASC41H3	Media and Popular Culture in East and Southeast Asia	Media and Popular Culture in East Asia
GASC59H3	Being Tamil: Race, Culture, Nation	The Making of Tamil Worlds
GASD01H3	Senior Seminar: Topics in Global Asian Cultures	Senior Seminar: Topics in Global Asian Migrations
GASD71H3	Cuisine and Culture in Bengal & South Asia	Cuisine, Culture, and Societies Across Global Asia
HISC52H3	A History of Ethiopia	Ethiopia: Seeing History
HISC59H3	Being Tamil: Race, Culture, Nation	The Making of Tamil Worlds
HLTB42H3	Foundations of Medical Anthropology	Perspectives of Culture, Illness and Healing
HLTC05H3	Social Determinants of Health	Society, Health and Illness
JOUB14H3	Journalism Design	Multiplatform Design
JOUB20H3	Multiplatform Journalism	Interactive Journalism
JOUC13H3	Beat Reporting	Entrepreneurial Reporting
LINB18H3	The Structure of English Words	English Grammar
MATA30H3	Calculus I for Biological and Physical Sciences	Calculus I for Physical Sciences
MDSC41H3	Media and Popular Culture in East and Southeast Asia	Media and Popular Culture in East Asia
MDSC64H3	Film and Technology	Media and Technology
MGAD70H3	Advanced Accounting Case Analysis	Advanced Accounting Case Analysis: A Capstone Course
MGEC54H3	Economics of the Family	Economics of Education and the Family
MGFD15H3	Private Equity	Special Topics in Finance: Private Equity

Course Code	Existing Title	New Title
MGSC20H3	New Ways of Work: Consulting, Contracting & Freelancing	Consulting and Contracting: New Ways of Work
MGSC40H3	Corporate Governance	Corporate Governance and Strategy – CPA Perspective New Course Code: MGAD45H3
MGTA01H3	Introduction to Management I	Introduction to Business
MGTA02H3	Introduction to Management II	Managing the Business Organization
PHLB12H3	Philosophy of Human Sexuality	Philosophy of Sexuality
PHLB33H3	Concepts of God	God, Self, World
VPHB77H3	Asia in Display	Modern Asian Art
VPHC42H3	Gothic Architecture	Gothic Art and Architecture
VPMB82H3	Art Music in the Modern and Contemporary Eras	Music in the Modern and Contemporary World
VPMC88H3	Special Topics in Music and Culture	Topics in Music and Culture
VPMC89H3	Music and Politics	Music and Identity
VPMC91H3	Introduction to Electronic Music	Electronic Music I
VPMC95H3	Musical Diasporas in Canada and the USA	Musical Diasporas
WSTD10H3	Telling Stories: Women's Oral History	Story Telling and Social Change