



Report produced: January 21, 2015

Total 76 programs - Compare

The initial and current values are shown

Initial Value	Current Value
Program: SCMIN1688 - Compare	
Code	SCMIN1688
Owning Organizations	CSC, MSCSC
Sections	Computer Science
Title	MINOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</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 for Computer Scientists 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>SCMIN1688</p> <p>CSC, MSCSC</p> <p>Computer Science</p> <p>MINOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)</p> <p>Same as Calendar Title</p> <p><i>Supervisor of Studies:</i> R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</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>

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Program notes/tables

Program: SCMAJ0133 - Compare

Code	SCMAJ0133	SCMAJ0133
Owning Organizations	ECM, MGTEC	ECM, MGTEC
Sections	Economics for Management Studies	Economics for Management Studies
Title	MAJOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)	MAJOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca	Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca

This Program is designed to give a coordinated exposure to the subject matter of Economics for Management Studies to students pursuing the four-year degree with more than a single area of concentration.

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Program Admission

Note: Registration in this Program is limited. Students must have completed a minimum of 4.0 credits to be considered for this program. Required courses include [MGEA02H3](#)/(ECMA04H3), [MGEA06H3](#)/(ECMA06H3), and [MATA32H3](#) & [MATA33H3](#) (or equivalents). Decisions will be made on the basis of cumulative GPA.

Students may apply until they have completed up to 10 full credits, and admission will be on the basis of all grades received. Students who have completed more than 10 full credits will not be considered for admission to the Program. Students should be aware that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program.

Program Admission

Note: Registration in this Program is limited. Students must have completed a minimum of 4.0 credits to be considered for this program. Required courses include [MGEA02H3](#)/(ECMA04H3), [MGEA06H3](#)/(ECMA06H3), and [MATA32H3](#) & [MATA33H3](#) (or equivalents). Decisions will be made on the basis of cumulative GPA.

Students may apply until they have completed up to 10 full credits, and admission will be on the basis of all grades received. Students who have completed more than 10 full credits will not be considered for admission to the Program. Students should be aware that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program.

Note: Students in the B.B.A. may not jointly enroll in the Major Program in Economics for Management Studies

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Program Requirements

The Program consists of 6.0 credits in Economics for Management Studies, 1.0 full credit in Mathematics and 1.0 full credit in any courses offered by the Centre for French and Linguistics, Department of Arts, Culture and Media, Department of English, Department of Historical and Cultural Studies, and the Department of Philosophy. The Economics courses must include:

- [MGEA02H3](#)/(ECMA04H3) & [MGEA06H3](#)/(ECMA06H3)
- [MGEB02H3](#)/(ECMB02H3) & [MGEB06H3](#)/(ECMB06H3)
- [MGEB11H3](#)/(ECMB11H3) & [MGEB12H3](#)/(ECMB12H3)
- [MGEC02H3](#)/(ECMC02H3) & [MGEC06H3](#)/(ECMC06H3)
- [MGEC11H3](#)/(ECMC11H3)

Plus 1.5 full credits chosen from the courses in Economics for Management Studies including at least one at the C-level (excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3).

Students must also complete [MATA32H3](#) & [MATA33H3](#) or [MATA30H3](#)/A31H3 & [MATA35H3](#)/A36H3/A37H3] and one full credit in any course offered by the Centre of French & Linguistic; Department of Arts, Culture & Media; Department of Historical & Cultural Studies; Department of English; and the Department of Philosophy.

Note: Students who take [MGEA01H3](#)/(ECMA01H3) and [MGEA05H3](#)/(ECMA05H3) and then decide to apply for this program will be permitted to substitute [MGEA01H3](#)/(ECMA01H3) and [MGEA05H3](#)/(ECMA05H3) for [MGEA02H3](#)/(ECMA04H3) & [MGEA06H3](#)/(ECMA06H3)]. However, these students will be required to complete [MATA32H3](#) & [MATA33H3](#) or [MATA30H3](#)/A31H3 & [MATA35H3](#)/A36H3/A37H3], before registering in [MGEB02H3](#)/(ECMB02H3) and [MGEB06H3](#)/(ECMB06H3).

STUDENTS WHO ARE CONSIDERING COMBINING PROGRAMS BETWEEN ECONOMICS AND STATISTICS

For students who are intending to pursue a major in Economics with a major or minor in Statistics, we advise the following recommended sequence of required courses. If the sequence outlined below is not followed, it may result in the student taking exclusions and incurring an "EXTRA" credit. An "EXTRA" credit does NOT count towards the 20 credit degree requirement.

Program Requirements

The Program consists of 6.0 credits in Economics for Management Studies, 1.0 full credit in Mathematics and 1.0 full credit in any courses offered by the Centre for French and Linguistics, Department of Arts, Culture and Media, Department of English, Department of Historical and Cultural Studies, and the Department of Philosophy. The Economics courses must include:

- [MGEA02H3](#)/(ECMA04H3) & [MGEA06H3](#)/(ECMA06H3)
- [MGEB02H3](#)/(ECMB02H3) & [MGEB06H3](#)/(ECMB06H3)
- [MGEB11H3](#)/(ECMB11H3) & [MGEB12H3](#)/(ECMB12H3)
- [MGEC02H3](#)/(ECMC02H3) & [MGEC06H3](#)/(ECMC06H3)
- [MGEC11H3](#)/(ECMC11H3)

Plus 1.5 full credits chosen from the courses in Economics for Management Studies including at least one at the C-level (excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3).

Students must also complete [MATA32H3](#) & [MATA33H3](#) or [MATA30H3](#)/A31H3 & [MATA35H3](#)/A36H3/A37H3] and one full credit in any course offered by the Centre of French & Linguistic; Department of Arts, Culture & Media; Department of Historical & Cultural Studies; Department of English; and the Department of Philosophy.

Note: Students who take [MGEA01H3](#)/(ECMA01H3) and [MGEA05H3](#)/(ECMA05H3) and then decide to apply for this program will be permitted to substitute [MGEA01H3](#)/(ECMA01H3) and [MGEA05H3](#)/(ECMA05H3) for [MGEA02H3](#)/(ECMA04H3) & [MGEA06H3](#)/(ECMA06H3)]. However, these students will be required to complete [MATA32H3](#) & [MATA33H3](#) or [MATA30H3](#)/A31H3 & [MATA35H3](#)/A36H3/A37H3], before registering in [MGEB02H3](#)/(ECMB02H3); [MGEB06H3](#)/(ECMB06H3); [MGEB11H3](#)/(ECMB11H3) and [MGEB12H3](#)/(ECMB12H3).

STUDENTS WHO ARE CONSIDERING COMBINING PROGRAMS BETWEEN ECONOMICS AND STATISTICS

For students who are intending to pursue a major in Economics with a major or minor in Statistics, we advise the following recommended sequence of required courses. If the sequence outlined below is not followed, it may result in the student taking exclusions and incurring an "EXTRA" credit. An "EXTRA" credit does NOT count towards the 20 credit degree requirement.

[STAB52H3](#)
[STAB57H3](#)
[MGEB12H3](#)/(ECMB12H3)
[MGEC11H3](#)/(ECMC11H3)*
[STAC67H3](#)

* [MGEC11H3](#)/(ECMC11H3) may be taken concurrently with [STAC67H3](#).
However, if [MGEC11H3](#)/(ECMC11H3) is taken after [STAC67H3](#), it will
count as an "EXTRA" course and no credit will be given for the degree
requirements.

[STAB52H3](#)
[STAB57H3](#)
[MGEB12H3](#)/(ECMB12H3)
[MGEC11H3](#)/(ECMC11H3)*
[STAC67H3](#)

* [MGEC11H3](#)/(ECMC11H3) may be taken concurrently with [STAC67H3](#).
However, if [MGEC11H3](#)/(ECMC11H3) is taken after [STAC67H3](#), it will
count as an "EXTRA" course and no credit will be given for the degree
requirements.

Program notes/tables

Program: SCMIN0133 - Compare

Code	SCMIN0133	SCMIN0133
Owning Organizations	ECM,MGTEC	ECM,MGTEC
Sections	Economics for Management Studies	Economics for Management Studies
Title	MINOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)	MINOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca</i></p> <p>This program is designed to give exposure to the subject matter in some areas of Economics to students who will combine this minor with other programs in order to graduate. (See the Degrees section of this <i>Calendar</i> for information.) Students need not have completed Grade 12 Calculus in order to enter this program.</p> <p>Program Admission Admission in this program is not limited and does not require training in Calculus. All Students who apply for this program will be admitted. However, students are warned that they are not guaranteed admission to B-level, C-level, and D-level courses. Students will be accommodated only after other program students have been admitted to these courses; therefore, many courses may be unavailable. Students will note that some of the B- and C-level courses in Economics for Management Studies do require Calculus; therefore, students signed up for the Minor Program must choose their courses carefully to ensure that they have the necessary prerequisites.</p> <p>Note: Students in the B.B.A. may not jointly enroll in the Minor Program in Economics for Management Studies.</p> <p>Program Requirements The program consists of 4.0 credits in Economics for Management Studies as follows: MGEA01H3/(ECMA01H3) or MGEA02H3/(ECMA04H3) MGEA05H3/(ECMA05H3) or MGEA06H3/(ECMA06H3) MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3) Plus two more full credits in Economics for Management Studies, including at least one at the C-level.</p> <p>Note: Students are warned that they are not guaranteed admission to all B-level and C-level courses. The following C-level courses, MGEA01H3/(ECMA01H3), MGEA02H3/(ECMA04H3) & MGEA05H3/(ECMA05H3) are available to students in the minor program. Note: Students may if they wish, count STAB22H3, ANTC35H3, PSYB07H3 or (SOCB06H3) or a more advanced statistics course as one half credit B-level Economics course in the Minor Program in Economics for Management Studies. While it is not required, students are strongly encouraged to include a statistics course in the program.</p>	<p><i>Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca</i></p> <p>This program is designed to give exposure to the subject matter in some areas of Economics to students who will combine this minor with other programs in order to graduate. (See the Degrees section of this <i>Calendar</i> for information.) Students need not have completed Grade 12 Calculus in order to enter this program.</p> <p>Program Admission Admission in this program is not limited and does not require training in Calculus. All Students who apply for this program will be admitted. However, students are warned that they are not guaranteed admission to most of the B-level, C-level, and D-level courses. Students will be accommodated only after other program students have been admitted to these courses; therefore, many courses may be unavailable. Students will note that some of the B- and C-level courses in Economics for Management Studies do require Calculus; therefore, students signed up for the Minor Program must choose their courses carefully to ensure that they have the necessary prerequisites.</p> <p>Note: Students in the B.B.A. may not jointly enroll in the Minor Program in Economics for Management Studies.</p> <p>Program Requirements The program consists of 4.0 credits in Economics for Management Studies as follows: MGEA01H3/(ECMA01H3) or MGEA02H3/(ECMA04H3) MGEA05H3/(ECMA05H3) or MGEA06H3/(ECMA06H3) MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3) Plus two more full credits in Economics for Management Studies, including at least one at the C-level.</p> <p>Note: Students are warned that they are not guaranteed admission to most of the B-level and C-level courses. The following C-level courses, MGEA01H3/(ECMA01H3), MGEA02H3/(ECMA04H3) & MGEA05H3/(ECMA05H3) are available to students in the minor program; MGEA06H3/(ECMA06H3) is available to students in the minor program at the beginning of the registration period. Note: Students may if they wish, count STAB22H3, ANTC35H3, PSYB07H3 or (SOCB06H3) or a more advanced statistics course as one half credit B-level Economics course in the Minor Program in Economics for Management Studies. While it is not required, students are strongly encouraged to include a statistics course in the program.</p>

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> A. Ashok <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 (BIOB30H3 Mammalian Physiology I or BIOB34H3 Animal Physiology), (BIOB31H3 Plant Physiology or BIOB38H3 Plants and Society) 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 BIOC17H3 Microbiology</p>	<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 BIOC17H3 Microbiology</p>

[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
[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

[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
[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: 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	<p><i>Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca</i></p> <p>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 <i>Calendar</i>.</p> <p>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.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>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 MGEB12H3/(ECMB12H3) Quantitative Methods in Economics 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)].</p> <p>2. (1.0 credit): MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3].</p> <p>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 MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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) Leadership Skills MGOC10H3/(MGTC74H3) Analysis for Decision Making MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach</p>	<p><i>Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca</i></p> <p>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 <i>Calendar</i>.</p> <p>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.</p> <p>Note: A single course may only be used once to fulfill one of the following requirements:</p> <p>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 MGEB12H3/(ECMB12H3) Quantitative Methods in Economics 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)].</p> <p>2. (1.0 credit): MATA32H3 and MATA33H3 strongly recommended, or MATA30H3/A31H3 and MATA35H3/A36H3/A37H3].</p> <p>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 MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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>

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 
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems

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) 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 
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems

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	Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca	Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca

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.

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.

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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
- [MGFB10H3](#)/(MGTB09H3) Principles of Finance
- [\[\[MGHB02H3](#) Managing People and Groups in Organizations or [\[\[MGTB23H3\]](#) and [\[\[MGTB29H3\]\]](#) or [\[\[MGTB27Y3\]\]](#)
- [MGHB12H3](#)/(MGTB02H3) Human Resource Management
- [MGMB01H3](#)/(MGTC05H3) Marketing Management
- [MGFC10H3](#)/(MGTC09H3) Intermediate Finance
- [MGHC02H3](#)/(MGTC90H3) Leadership 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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [MGAB03H3](#)/(MGTB03H3) Introductory Management Accounting
- [MGFB10H3](#)/(MGTB09H3) Principles of Finance
- [\[\[MGHB02H3](#) Managing People and Groups in Organizations or [\[\[MGTB23H3\]](#) and [\[\[MGTB29H3\]\]](#) or [\[\[MGTB27Y3\]\]](#)
- [MGHB12H3](#)/(MGTB02H3) 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
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems

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
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems

4. (4.0 credits):

- [MGEA02H3](#)/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach

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  and
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics  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*.

[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  and
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics  and
 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

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[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.

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.

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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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) Leadership 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
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- [MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
- [MGSD24H3](#)/(MGSC24H3/MGTC39H3) New Venture Creation and Planning
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business

Academic Director: S. Ahmed *Email:* mgmtss@utsc.utoronto.ca

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Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A.degree.

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- [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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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

[MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
[MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
[MGEC43H3](#)/(ECMC43H3) Organization Strategies
[MGSD10H3](#)/(MGTD40H3) Knowledge Management
[MGAD40H3](#)/(MGTD54H3) Management Control Systems


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*.

[MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
[MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
[MGEC43H3](#)/(ECMC43H3) Organization Strategies
[MGSD10H3](#)/(MGTD40H3) Knowledge Management
[MGAD40H3](#)/(MGTD54H3) Management Control Systems

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: SCSPE24321 - Compare

Code	SCSPE24321	SCSPE24321
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	Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca	Academic Director: S. Ahmed E-mail: 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 a solid grounding in Computer Science. Please see the section regarding work term requirements for specific details on courses required before each work term.

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.

Program Requirements

The Program requires the completion of 18.5 to 19.5 credits as part of a twenty-credit B.B.A. degree.

Program Requirements

The Program requires the completion of 18.5 to 19.5 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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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) Leadership 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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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. (5.0 credits):

- [CSCA08H3](#) Introduction to Computer Science I
- [CSCA48H3](#) Introduction to Computer Science II
- [CSCA67H3](#) Discrete Mathematics for Computer Scientists
- [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
- [MATB24H3](#) Linear Algebra

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
- [MATB24H3](#) Linear Algebra

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
- [MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics and 1 full credit of C-level Economics for Management Studies courses

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
- [MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics and 1 full credit of C-level Economics for Management Studies courses

[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: 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 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>
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): 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 MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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) Leadership 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/A36H3/A37H3]</p> <p>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 MGMC30H3/(MGTC33H3) Event and Sponsorship Management MGSC32H3/(MGTC32H3) The Legal Environment of Business MGEC43H3/(ECMC43H3) Organization Strategies MGSD10H3/(MGTD40H3) Knowledge Management MGAD40H3/(MGTD54H3) Management Control Systems</p> <p>4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: 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): 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 MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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/A36H3/A37H3]</p> <p>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 MGMC30H3/(MGTC33H3) Event and Sponsorship Management MGSC32H3/(MGTC32H3) The Legal Environment of Business MGEC43H3/(ECMC43H3) Organization Strategies MGSD10H3/(MGTD40H3) Knowledge Management MGAD40H3/(MGTD54H3) Management Control Systems</p> <p>4. (4.0 credits): MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach</p>

[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. 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

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*.

[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. 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

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: SCSPE2432 - Compare

Code	SCSPE2432	SCSPE2432
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	Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca	Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca

This Program has two streams:

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 **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.

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.

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.

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:

Note: A single course may only be used once to fulfill one of the following requirements:

Core (12.5 to 13.5 credits):

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
 - [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
 - [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) Leadership 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

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
 - [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
 - [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 [\[\[MATA35H3/A36H3/A37H3\]](#)]]

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

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  and
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics , and
 1 full credit of C-level Economics for Management Studies courses [excluding [MGEC91H3](#)/(ECMC91H3), [MGEC92H3](#)/(ECMC92H3), [MGEC93H3](#)/(ECMC93H3)]

[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  and
[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics , 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):

Management Strategy Stream (2.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

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 
- [MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management

- [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 
- [MGSD24H3](#)/(MGTC39H3) New Venture Creation and Planning
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGAD40H3](#)/(MGTD54H3) Management Control Systems
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management

5. 1.0 credit from:

5. 1.0 credit from:

- [MGSC01H3](#)/(MGTC41H3) Corporate Strategy
- [MGSC03H3](#)/(MGTC42H3) Public Management, or
- [MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations

- [MGSC01H3](#)/(MGTC41H3) Corporate Strategy
- [MGSC03H3](#)/(MGTC42H3) Public Management, or
- [MGSC05H3](#)/(MGTC45H3) The Changing World of Business-Government Relations

6. 0.5 credit from:

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 
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [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
- [POLC66H3](#) Public Policy Making

- [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 
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [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):

7. (0.5 credit):

- [MGSD01H3](#)/(MGTD47H3) Senior Seminar in Strategic Management

- [MGSD01H3](#)/(MGTD47H3) Senior Seminar in Strategic Management

Entrepreneurship Stream (3.5 credits):

Entrepreneurship Stream (3.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:

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 
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies

- [MGSC12H3](#)/(MGTC35H3) Narratives on Management and Organization
- [MGSC14H3](#)/(MGTC59H3) Management Ethics
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business 
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business 
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies

[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGSD10H3](#)/(MGTD40H3) Knowledge Management

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
[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*.

[MGAD40H3](#)/(MGTD54H3) Management Control Systems
[MGSD10H3](#)/(MGTD40H3) Knowledge Management

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
[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: SCSPE2431J - Compare

Code	SCSPE2431J	SCSPE2431J
Owning Organizations	MGT,MGTEC	MGT,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.utsc.utoronto.ca/~registrar and the MIB section of the Management website: http://www.utsc.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 Calendar.</p> <p>Program Requirements: The Program requires the completion of 17.0 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. 10.5 to 11.0 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 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.utsc.utoronto.ca/~registrar and the MIB section of the Management website: http://www.utsc.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 Calendar.</p> <p>Program Requirements: The Program requires the completion of 17.0 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. 10.5 to 11.0 credits in Management as follows: MGIA01H3/(MGTB07H3) Principles of International Marketing MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]</p>

[\[MGTA36H3\]](#) Management Communications for Co-op or (MGTC36H3)]
[\[MGAB01H3\]](#)/(MGTB05H3) Introductory Financial Accounting
[\[MGIB01H3\]](#)/(MGTD19H3) Global Marketing
[\[MGAB02H3\]](#)/(MGTB06H3) Introductory Financial Accounting
[\[MGIB02H3\]](#)/(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
[\[MGSC30H3\]](#)/(MGTC31H3) The Legal Environment of Business
[\[MGFC50H3\]](#)/(MGTC76H3) International Financial Management
[\[MGID40H3\]](#)/(MGTD21H3) Introduction to International Business Law
[\[MGID79H3\]](#)/(MGTD79H3) International Capstone Case Analysis
[\[MGAD80H3\]](#)/(MGTC34H3) Accounting Issues in International Business

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
- [\[POLA83H3\]](#) Exploring Globalization
- [\[POLA84H3\]](#) Globalization and Governance
- [\[POLB80H3\]](#) Introduction to International Relations

[\[MGTA36H3\]](#) Management Communications for Co-op or (MGTC36H3)]
[\[MGAB01H3\]](#)/(MGTB05H3) Introductory Financial Accounting
[\[MGIB01H3\]](#)/(MGTD19H3) Global Marketing
[\[MGAB02H3\]](#)/(MGTB06H3) Introductory Financial Accounting
[\[MGIB02H3\]](#)/(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
[\[MGSC30H3\]](#)/(MGTC31H3) The Legal Environment of Business
[\[MGFC50H3\]](#)/(MGTC76H3) International Financial Management
[\[MGID40H3\]](#)/(MGTD21H3) Introduction to International Business Law
[\[MGID79H3\]](#)/(MGTD79H3) International Capstone Case Analysis
[\[MGAD80H3\]](#)/(MGTC34H3) Accounting Issues in International Business

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

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

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>Associate Chair & Program Supervisor: Matthias Niemeier Email: neuroscience-program-supervisor@utsc.utoronto.ca</p> <p>Course Support & Program Advisor: Hanan Domloge Email: hdomloge@utsc.utoronto.ca</p>	<p>Program Manager: Hanan Domloge</p> <p>Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca</p>

Program Requirements

This program requires completion of 14.0 credits:

- The following 4.0 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 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:
 - [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:
 - [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](#) Sensory & Motor Systems
 - [NROC69H3](#) Synaptic Organization & Physiology of the Brain
 - [PSYC08H3](#) Advanced Data Analysis in Psychology
 - [PSYC62H3](#) Drugs & the Brain
- 1.0 credit from the following:
 - [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
 - [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

Note: 0.5 credit of [NROD98Y3](#). Thesis in Neuroscience, may also be counted towards Requirement 4.

Program Requirements

This program requires completion of 14.0 credits:

- The following 4.0 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 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:
 - [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:
 - [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](#) Sensory & Motor Systems
 - [NROC69H3](#) Synaptic Organization & Physiology of the Brain
 - [PSYC08H3](#) Advanced Data Analysis in Psychology
 - [PSYC62H3](#) Drugs & the Brain
- 1.0 credit from the following:
 - [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
 - [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

Note: 0.5 credit of [NROD98Y3](#). Thesis in Neuroscience, may also be counted towards Requirement 4.

Program notes/tables

Program: SCSPE1472C - Compare

Code	SCSPE1472C	SCSPE1472C
Owning Organizations	NRO,PSYSC	NRO,PSYSC
Sections	Neuroscience	Neuroscience
Title	SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE (SCIENCE)	SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Associate Chair & Program Supervisor:</i> Konstantine Zakzaris <i>Course Support & Program Advisor:</i> Hanan Domloge <i>Email:</i> hdomloge@utsc.utoronto.ca <i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Neuroscience Co-operative program is designed to provide the student with a broad education in neuroscience, including neuroanatomy, neurophysiology, behaviour, psychology, biochemistry, cell and molecular biology and data analysis through lectures, lecture/lab and intensive laboratory courses.</p> <p>The program combines academic studies in the field of neuroscience with practical work experience in settings in which scientific knowledge from various subfields in the discipline is applied. Students may apply for work term employment in settings such as research and development departments in industry, educational institutions, health care institutions and government agencies. The work experience provided by the program enables students to explore career opportunities that may be pursued following the Bachelor's degree. Work settings may also provide students with the opportunity to observe neuroscientists 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 applied research.</p> <p>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>Program Admission Enrolment in the program is limited. <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>. <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 including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75.</p> <p>Program Requirements</p> <p>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: BIOB10H3, BIOB11H3, BIOB12H3, CHMB41H3, CHMB42H3, NROB60H3, NROC61H3 or NROC64H3. 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.</p> <p>To be eligible for their second work term, students must have completed at least 12.5 full credits and have received satisfactory evaluation for their performance and for their report on their first work term.</p> <p>Course Requirements The program requires the completion of 15.0 credits including the 14.0 credits as specified in the Specialist Program in Neuroscience, plus the following:</p>	<p><i>Program Manager:</i> Hanan Domloge <i>Undergraduate Advisor:</i> Ainsley Lawson <i>Email:</i> psychology-undergraduate@utsc.utoronto.ca <i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p> <p>The Neuroscience Co-operative program is designed to provide the student with a broad education in neuroscience, including neuroanatomy, neurophysiology, behaviour, psychology, biochemistry, cell and molecular biology and data analysis through lectures, lecture/lab and intensive laboratory courses.</p> <p>The program combines academic studies in the field of neuroscience with practical work experience in settings in which scientific knowledge from various subfields in the discipline is applied. Students may apply for work term employment in settings such as research and development departments in industry, educational institutions, health care institutions and government agencies. The work experience provided by the program enables students to explore career opportunities that may be pursued following the Bachelor's degree. Work settings may also provide students with the opportunity to observe neuroscientists 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 applied research.</p> <p>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>Program Admission Enrolment in the program is limited. <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>. <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 including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75.</p> <p>Program Requirements</p> <p>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: BIOB10H3, BIOB11H3, BIOB12H3, CHMB41H3, CHMB42H3, NROB60H3, NROC61H3 or NROC64H3. 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.</p> <p>To be eligible for their second work term, students must have completed at least 12.5 full credits and have received satisfactory evaluation for their performance and for their report on their first work term.</p> <p>Course Requirements The program requires the completion of 15.0 credits including the 14.0 credits as specified in the Specialist Program in Neuroscience, plus the following:</p>

1. [BIOB12H3](#) Cell and Molecular Biology Laboratory
2. [BIOC23H3](#) Practical Approaches to Biochemistry
3. The Arts & Science Co-op Work Term Preparation course

1. [BIOB12H3](#) Cell and Molecular Biology Laboratory
2. [BIOC23H3](#) Practical Approaches to Biochemistry
3. The Arts & Science Co-op Work Term Preparation course

Program notes/tables

Program: SCMAJ1472 - Compare

Code	SCMAJ1472	SCMAJ1472
Owning Organizations	NRO,PSYSC	NRO,PSYSC
Sections	Neuroscience	Neuroscience
Title	MAJOR PROGRAM IN NEUROSCIENCE (SCIENCE)	MAJOR PROGRAM IN NEUROSCIENCE (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Associate Chair & Program Supervisor: Matthias Niemeier Email: neuroscience-program-supervisor@utsc.utoronto.ca</p> <p>Course Support & Program Advisor: Hanan Domloge Email: hdomloge@utsc.utoronto.ca</p> <p>Program Requirements</p> <p>The Program requires completion of 8.0 credits. Students who wish to combine the Major Program in Neuroscience with the Major in Biology or the Major in Mental Health Studies or the Major in Psychology are advised that they must present 12.0 distinct credits to receive certification of the completion of both programs. Consultation with the respective Program Supervisors in the selection of credits is recommended.</p> <p>The following indicates the required credits for the Major Program in Neuroscience:</p> <ol style="list-style-type: none"> The following 3.0 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 PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II The following 2.5 credits: <ul style="list-style-type: none"> BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes NROB60H3 Neuroanatomy Laboratory PSYB65H3 Human Brain and Behaviour [STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology] The following 1.5 credits: <ul style="list-style-type: none"> BIOC32H3 Human Physiology I NROC61H3 Learning and Motivation NROC64H3 Sensory and Motor Systems 1.0 credit from the following: <ul style="list-style-type: none"> BIOC14H3 Genes, Environment and Behaviour BIOD19H3 Epigenetics in Health and Disease BIOC33H3 Human Physiology II: Lecture & Laboratory BIOD27H3 Molecular Endocrinology BIOD45H3 Animal Communication BIOD65H3 Pathologies of the Nervous System NROC34H3 Neuroethology NROC63H3 Neuroscience Laboratory NROC69H3 Synaptic Organization & Physiology of the Brain NROC90H3 Supervised Study in Neuroscience NROD60H3 Current Topics in Neuroscience NROD63H3 Advanced Neuroscience Laboratory NROD66H3 Drug Addiction NROD67H3 Psychobiology of Aging PSYC62H3 Drugs and the Brain PSYD17H3 Social Neuroscience PSYD33H3 Current Topics in Abnormal Psychology PSYD66H3 Current Topics in Human Brain & Behaviour 	<p>Program Manager: Hanan Domloge</p> <p>Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca</p> <p>Program Requirements</p> <p>The Program requires completion of 8.0 credits. Students who wish to combine the Major Program in Neuroscience with the Major in Biology or the Major in Mental Health Studies or the Major in Psychology are advised that they must present 12.0 distinct credits to receive certification of the completion of both programs. Consultation with the respective Program Supervisors in the selection of credits is recommended.</p> <p>The following indicates the required credits for the Major Program in Neuroscience:</p> <ol style="list-style-type: none"> The following 3.0 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 PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II The following 2.5 credits: <ul style="list-style-type: none"> BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes NROB60H3 Neuroanatomy Laboratory PSYB65H3 Human Brain and Behaviour [STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology] The following 1.5 credits: <ul style="list-style-type: none"> BIOC32H3 Human Physiology I NROC61H3 Learning and Motivation NROC64H3 Sensory and Motor Systems 1.0 credit from the following: <ul style="list-style-type: none"> BIOC14H3 Genes, Environment and Behaviour BIOD19H3 Epigenetics in Health and Disease BIOC33H3 Human Physiology II: Lecture & Laboratory BIOD27H3 Molecular Endocrinology BIOD45H3 Animal Communication BIOD65H3 Pathologies of the Nervous System NROC34H3 Neuroethology NROC63H3 Neuroscience Laboratory NROC69H3 Synaptic Organization & Physiology of the Brain NROC90H3 Supervised Study in Neuroscience NROD60H3 Current Topics in Neuroscience NROD63H3 Advanced Neuroscience Laboratory NROD66H3 Drug Addiction NROD67H3 Psychobiology of Aging PSYC62H3 Drugs and the Brain PSYD17H3 Social Neuroscience PSYD33H3 Current Topics in Abnormal Psychology PSYD66H3 Current Topics in Human Brain & Behaviour

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> I. Stehlik <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 This program consists of 14.5 required credits.</p> <p>A. Required Courses <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 in Mathematics MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics Choose from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>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 (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 (BIOB30H3) Mammalian Physiology I or (BIOB34H3) Animal Physiology] (BIOB31H3) Plant Physiology or (BIOB38H3) Plants and Society] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs BIOB52H3 Ecology and Evolutionary Biology Laboratory</p>	<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 This program consists of 14.5 required credits.</p> <p>A. Required Courses <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 in Mathematics MATA30H3 Calculus I for Biological and Physical Sciences MATA35H3 Calculus II for Biological Sciences</p> <p>0.5 Credit in Physics Choose from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p> <p>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 (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 (BIOB30H3) Mammalian Physiology I or (BIOB34H3) Animal 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>

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[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 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[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

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> J. 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><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>
Program Requirements	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.	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.
A. Required Courses		
<i>First Year</i>		
1.0 Credit of Introductory Biology Courses		
BIOA01H3 Life on Earth: Unifying Principles		BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions		BIOA02H3 Life on Earth: Form, Function and Interactions
1.0 Credit of Introductory Chemistry Courses		
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
1.0 Credit in Mathematics		
MATA30H3 Calculus I for Biological and Physical Sciences		MATA30H3 Calculus I for Biological and Physical Sciences
MATA35H3 Calculus II for Biological Sciences		MATA35H3 Calculus II for Biological Sciences
0.5 Credit in Physics		
Choose from:		Choose from:
PHYA10H3 Introduction to Physics IA		PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB		PHYA11H3 Introduction to Physics IB
0.5 Credit in Computer Science		
Choose from:		Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)		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)		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)		PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)
<i>Second Year</i>		<i>Second Year</i>
3.0 Credits of Biology Core Courses		
BIOB10H3 Cell Biology		BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes		BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB30H3 Mammalian Physiology I or BIOB34H3 Animal Physiology		BIOB30H3 Mammalian Physiology I or BIOB34H3 Animal Physiology
BIOB31H3 Plant Physiology or BIOB38H3 Plants and Society		BIOB38H3 Plants and Society or BIOB31H3 Plant Physiology
BIOB50H3 Ecology		BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology		BIOB51H3 Evolutionary Biology
0.5 Credit of Biology Core Labs		
Choose from:		Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory		BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory		BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory		BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory		BIOB52H3 Ecology and Evolutionary Biology Laboratory
0.5 Credit in Statistics		
Choose from:		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](#) Sensory and Motor Systems
[PSYC31H3](#) Clinical Neuropsychology
[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

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
[EESC30H3](#) Microbial Biogeochemistry
[BIOC37H3](#) Plants: Life on the Edge

[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](#) Sensory and Motor Systems
[PSYC31H3](#) Clinical Neuropsychology
[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

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

(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](#) (Genomics), [BIOD26H3](#) (Fungal Biology and Pathogenesis), [BIOD29H3](#) (Pathobiology of Human Disease) & [BIOD65H3](#)

- 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).
- (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).

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	<p>Supervisor: J. Nash Email: cell-and-molecular-biology@utsc.utoronto.ca</p>	<p>Supervisor: C. Hasenkampf Email: molecular-biology-biotechnology@utsc.utoronto.ca</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 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](#) [MATA30H3](#) Calculus I for Biological and Physical Sciences & [MATA35H3](#) Calculus II for Biological Sciences] or
[MATA30H3](#) Calculus I for Biological and Physical Sciences & [MATA36H3](#) [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
([BIOB30H3](#)) Mammalian Physiology I or [BIOB34H3](#) Animal Physiology)
([BIOB31H3](#)) Plant Physiology or [BIOB38H3](#) Plants and Society]
[BIOB50H3](#) Ecology
[BIOB51H3](#) Evolutionary Biology

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](#) [MATA30H3](#) Calculus I for Biological and Physical Sciences & [MATA35H3](#) Calculus II for Biological Sciences] or
[MATA30H3](#) Calculus I for Biological and Physical Sciences & [MATA36H3](#) [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
([BIOB30H3](#)) Mammalian Physiology I or [BIOB34H3](#) Animal Physiology) or
([BIOB31H3](#)) Plant Physiology or [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*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'.**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'.**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>Supervisor: I. Stehlik Email: 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>Supervisor: M. Andrade Email: 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>
Program Requirements	This program consists of 8.0 required credits.	This program consists of 8.0 required credits.
<i>First Year</i>	<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>0.5 Credit in Mathematics or Statistics</p> <p>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</p> <p>BIOB10H3 Cell Biology BIOB11H3 Molecular Aspects of Cellular and Genetic Processes [(BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology] [(BIOB31H3) Plant Physiology or BIOB38H3 Plants and Society] BIOB50H3 Ecology BIOB51H3 Evolutionary Biology</p> <p>0.5 Credit of Biology Core Labs</p> <p>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</p> <p>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</p> <p>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>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>0.5 Credit in Mathematics or Statistics</p> <p>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</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: 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</p> <p>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</p> <p>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: 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>Supervisor: I. Stehlik E-mail: 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 (BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology (BIOB31H3) Plant Physiology or BIOB38H3 Plants and Society 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>Supervisor: M. Andrade E-mail: 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>

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
- [EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

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
- [EESD15H3](#) Cleaning Up Our Mess: Remediation of Terrestrial and Aquatic Environments

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>Supervisor: A. Ashok Email: 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 (BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology] 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 Sensory and Motor Systems NROC69H3 Synaptic Organisation and Physiology of the Brain</p> <p>0.5 Credit of Additional D-Level Biology Courses</p>	<p>Supervisor: M. Terebiznik Email: 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 Sensory and Motor Systems NROC69H3 Synaptic Organisation and Physiology of the Brain</p> <p>0.5 Credit of Additional D-Level Biology Courses</p>

Choose From:



[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

Choose From:

[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

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>Supervisor:  Stehlik Email: 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>Supervisor:  M. Andrade Email: 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>

Program notes/tables

Program: SCSPE24312 - Compare

Code	SCSPE24312	SCSPE24312
Owning Organizations	MGT,MGTEC	MGT,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

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca

This program has two streams:

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.

The 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.

General Stream:

Program Requirements

This stream requires the completion of 13.5 to 14.5 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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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) Leadership 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) New Ways of Work: Consulting, Contracting & Freelancing
- [MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
- [MGSD24H3](#)/(NGSC24H3/MGTC39H3) New Venture Creation and Planning
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca

This program has two streams:

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.

The 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.

General Stream:

Program Requirements

This stream requires the completion of 13.5 to 14.5 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
- [MGAB02H3](#)/(MGTB06H3) Introductory Financial Accounting
- [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) New Ways of Work: Consulting, Contracting & Freelancing
- [MGSB22H3](#)/(MGSC22H3/MGTC38H3) Entrepreneurship
- [MGSD24H3](#)/(NGSC24H3/MGTC39H3) New Venture Creation and Planning
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business
- [MGMC30H3](#)/(MGTC33H3) Event and Sponsorship Management
- [MGSC32H3](#)/(MGTC32H3) The Legal Environment of Business
- [MGEC43H3](#)/(ECMC43H3) Organization Strategies
- [MGSD10H3](#)/(MGTD40H3) Knowledge Management

[MGAD40H3](#)/(MGTD54H3) Management Control Systems

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

[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics

1 full credit of C-level Economics for Management Studies courses [excluding [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEB02H3](#)/(ECMB02H3), [MGEB06H3](#)/(ECMB06H3)]

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*.

Program notes/tables

[MGAD40H3](#)/(MGTD54H3) Management Control Systems

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

[MGEB12H3](#)/(ECMB12H3) Quantitative Methods in Economics

1 full credit of C-level Economics for Management Studies courses [excluding [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEB02H3](#)/(ECMB02H3), [MGEB06H3](#)/(ECMB06H3)]

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*.

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 March 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, 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 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>IDS Co-op Tutorial and Pre-Departure Orientation</p> <p>Students participate in a non-credit co-op tutorial, commencing at the end of the year in which they complete 10 credits, and continuing through the following year (the pre-placement year). Presentations, group</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 March 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, 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>Students participate in a non-credit co-op tutorial, commencing at the end of the year in which they complete 10 credits, and continuing through the following year (the pre-placement year). Presentations, group</p>

exercises and individual assignments 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.

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](#)/(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]

[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](#) International Health Policy Analysis

[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](#)/(ECMB11H3) Quantitative Methods in Economics I

[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical

Reasoning

[GGRB30H3](#) Fundamentals of GIS I

[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

[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]

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

[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

exercises and individual assignments 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.

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](#)/(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]

[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](#)/(ECMB11H3) Quantitative Methods in Economics I

[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical

Reasoning

[GGRB30H3](#) Fundamentals of GIS I

[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

[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]

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

[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

<p>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</p> <p>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</p>	<p>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</p> <p>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</p>
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Program notes/tables

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) IDSA01H3 Introduction to International Development Studies 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] EESA01H3 Introduction to Environmental Science 2. Core courses in International Development (3.0 full credits as follows) IDSB01H3 Political Economy of International Development IDSB02H3 Development and Environment IDSB04H3 International Health Policy Analysis 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 full credits as follows) IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I 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 POLC78H3 Political Analysis I 4. Research in International Development Requirement (0.5 credit): IDSD02H3 Supervised Research in International Development 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, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement. <p>Media and Development ANTC53H3 Anthropology of Media and Publics GASC40H3 Chinese Media and Politics</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) IDSA01H3 Introduction to International Development Studies 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] EESA01H3 Introduction to Environmental Science 2. Core courses in International Development (3.0 full credits as follows) 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 full credits as follows) IDSC04H3 Project Management I 0.5 credit in Quantitative/statistical methods from the following: ANTC35H3 Quantitative Methods in Anthropology MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I 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 POLC78H3 Political Analysis I 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, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement. <p>Media and Development ANTC53H3 Anthropology of Media and Publics GASC40H3 Chinese Media and Politics</p>

[GASC41H3](#) Media and Popular Culture in East and Southeast Asia
[IDSB10H3](#) Knowledge and Communication for Development
[IDSC08H3](#) Media and Development
[MDSB05H3](#) Media and Globalization
[MDSB61H3](#) Mapping New Media
[SOCC44H3](#) Media and Society

Culture and Society

[ANB20H3](#) Culture, Politics and Globalization
[ANB64H3](#) The Anthropology of Foods
[ANTC10H3](#) Anthropological Perspectives on Development
[ANTC34H3](#) The Anthropology of Transnationalism
[ANTC66H3](#) Anthropology of Tourism
[DTSB01H3](#) Diaspora and Transnationalism Studies I
[DTSB02H3](#) Diaspora and Transnationalism Studies II
[HISB51H3/AFSB51H3](#) Twentieth Century Africa
[HISB57H3](#) Sub-Continental Histories: South Asia in the World
[HISC55H3](#) War and Society in Modern Africa
[IDSC08H3](#) Media and Development
[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/\(ECMB36H3\)](#) Economic Aspects of Public Policy
[MGEB60H3/\(ECMB68H3\)](#) Comparative Economic Systems
[MGEC81H3/\(ECMC66H3\)](#) Economic Development
[MGEC82H3/\(ECMC67H3\)](#) Development Policy
[IDSC12H3](#) Economics of Small Enterprise and Micro-Credit
[IDSC14H3](#) The Political Economy of Food

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

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 International Health
[POLC94H3](#) Globalization, Gender and Development
[WSTC10H3](#) Women and Development
[WSTC11H3](#) Applied Study in Women and Development

Politics and Policy

[IDSC11H3](#) Issues in 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 in Development
[POLB80H3](#) Introduction to International Relations
[POLB81H3](#) Global Issues and Governance

[GASC41H3](#) Media and Popular Culture in East and Southeast Asia
[IDSB10H3](#) Knowledge and Communication for Development
[IDSC08H3](#) Media and Development
[MDSB05H3](#) Media and Globalization
[MDSB61H3](#) Mapping New Media
[SOCC44H3](#) Media and Society

Culture and Society

[ANB20H3](#) Culture, Politics and Globalization
[ANB64H3](#) The Anthropology of Foods
[ANTC10H3](#) Anthropological Perspectives on Development
[ANTC34H3](#) The Anthropology of Transnationalism
[ANTC66H3](#) Anthropology of Tourism
[DTSB01H3](#) Diaspora and Transnationalism Studies I
[DTSB02H3](#) Diaspora and Transnationalism Studies II
[HISB51H3/AFSB51H3](#) Twentieth Century Africa
[HISB57H3](#) Sub-Continental Histories: South Asia in the World
[HISC55H3](#) War and Society in Modern Africa
[IDSC08H3](#) Media and Development
[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/\(ECMB36H3\)](#) Economic Aspects of Public Policy
[MGEB60H3/\(ECMB68H3\)](#) Comparative Economic Systems
[MGEC81H3/\(ECMC66H3\)](#) Economic Development
[MGEC82H3/\(ECMC67H3\)](#) Development Policy
[IDSC12H3](#) Economics of Small Enterprise and Micro-Credit
[IDSC14H3](#) The Political Economy of Food

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

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

[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
[POLD90H3](#) Public Policy and Human Development in the Global South
[POLD92H3](#) Survival and Demise of Dictatorships
[POLD94H3](#) Selected Topics on Developing Areas

[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
[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: 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): <ul style="list-style-type: none"> POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): <ul style="list-style-type: none"> POLB70H3 Classic Texts in Political Theory I POLB71H3 Classic Texts in Political Theory II 3. Canadian Politics (1.0 credit): <ul style="list-style-type: none"> POLB50Y3 Canadian Government and Politics 4. At least four of the following (2.0 credits): <ul style="list-style-type: none"> POLB80H3 Introduction to International Relations POLB81H3 Global Issues and Governance POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe POLB93H3 Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War 5. Methods (1.0 credit): <ul style="list-style-type: none"> STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (6.0 credits): <ul style="list-style-type: none"> 6.0 credits in political science at the C- and/or D-level, of which at least 1.0 must be 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): <ul style="list-style-type: none"> POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II 2. Political Theory (1.0 credit): <ul style="list-style-type: none"> POLB70H3 Classic Texts in Political Theory I POLB71H3 Classic Texts in Political Theory II 3. Canadian Politics (1.0 credit): <ul style="list-style-type: none"> POLB50Y3 Canadian Government and Politics 4. At least four of the following (2.0 credits): <ul style="list-style-type: none"> POLB80H3 Introduction to International Relations POLB81H3 Introduction to International Relations POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe POLB93H3 Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War 5. Methods (1.0 credit): <ul style="list-style-type: none"> STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (6.0 credits): <ul style="list-style-type: none"> 6.0 credits in political science at the C- and/or D-level, of which at least 1.0 must be 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 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): POLB70H3 Classic Texts in Political Theory I POLB71H3 Classic Texts in Political Theory II 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 POLB81H3 Global Issues and Governance POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe POLB93H3 Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War 5. Methods (1.0 credit): STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (2.0 credits): 2.0 credits in political science at the C- and/or D-level, of which at least 0.5 credit must be at the D-level. 	<p>Program Requirements 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): POLB70H3 Classic Texts in Political Theory I POLB71H3 Classic Texts in Political Theory II 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 POLB81H3 Introduction to International Relations POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe POLB93H3 Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War 5. Methods (1.0 credit): STAB22H3 Statistics I or equivalent POLC78H3 Political Analysis I 6. Applications (2.0 credits): 2.0 credits in political science at the C- and/or D-level, of which at least 0.5 credit must be at the D-level.

Program notes/tables

Program: SCSPE1160M - Compare

Code	SCSPE1160M	SCSPE1160M
Owning Organizations	PSY,PSYSC	PSY,PSYSC
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	Associate Chair and Program Supervisor: Konstantine Zakzanis Email: psychology-program-supervisor@utsc.utoronto.ca Course Support & Program Advisor: Hanan Domloge Email: hdomloge@utsc.utoronto.ca	Program Manager: Hanan Domloge Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca

Program

Requirements

The program requires completion of 12.5 credits as follows including at least 4.0 4.0 credits at the C- or D-level of which at least 1.0 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 (1.0 credit)
 - a. [PSYB01H3](#) Psychological Research Laboratory
and
 - b. [PSYC37H3](#) Psychological Assessment
4. [PSYC02H3](#) Scientific Communication in Psychology
(0.5 credit)
5. History & Approaches (0.5 credit)
 - 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: Origins and Applications
 - [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
8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit)
 - [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:
 - [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

Program

Requirements

The program requires completion of 12.5 credits as follows including at least

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 (1.0 credit)
 - a. [PSYB01H3](#) Psychological Research Laboratory
and
 - b. [PSYC37H3](#) Psychological Assessment
4. [PSYC02H3](#) Scientific Communication in Psychology
(0.5 credit)
5. History & Approaches (0.5 credit)
 - 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: Origins and Applications
 - [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
8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit)
 - [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:
 - [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

[PHLB07H3](#) Ethics

[PHLB09H3](#) Biomedical Ethics

(SOCB48H3) Family and Society

[SOCB50H3](#) Deviance and Normality I

[SOCB51H3](#) Deviance and Normality II

[SOCC30H3](#) Criminal Behaviour

*NOTE: [MGTA06H3](#) has prerequisites that are not requirements of this program.

[PHLB09H3](#) Biomedical Ethics

(SOCB48H3) Family and Society

[SOCB50H3](#) Deviance and Normality I

[SOCB51H3](#) Deviance and Normality II

[SOCC30H3](#) Criminal Behaviour

*NOTE: [MGTA06H3](#) has prerequisites that are not requirements of this program.

**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		

Associate Chair and Program Supervisor: Matthias Niemeier Email: psychology-program-supervisor@utsc.utoronto.ca
 Course Support & Program Advisor: Hanan Hdomloge Email: hdomloge@utsc.utoronto.ca

Program Manager: Hanan Domloge
 Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca

Program Requirements

The Program requires completion of 12.5 credits as follows including at least 4.0 at the C- or D-level of which at least 1.0 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 (1.0 credit)
 - a. [PSYB01H3](#) Psychological Research Laboratory
and
 - 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)
 - a. [PSYC84H3](#) Psychology and the Scientific Mind
or
 - 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:
 - 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:
 - 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

Program Requirements

The Program requires completion of 12.5 credits as follows including at least 4.0 at the C- or D-level of which at least 1.0 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 (1.0 credit)
 - a. [PSYB01H3](#) Psychological Research Laboratory
and
 - 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)
 - a. [PSYC84H3](#) Psychology and the Scientific Mind
or
 - 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:
 - 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:
 - 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)

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- or D-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

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- 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	<p><i>Program Supervisor:</i> Konstantine Zakzanis <i>Course Support & Program Advisor:</i> Hanan Domloge <i>Email:</i> hdomloge@utsc.utoronto.ca <i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p>	<p><i>Program Manager:</i> Hanan Domloge <i>Undergraduate Advisor:</i> Ainsley Lawson <i>Email:</i> psychology-undergraduate@utsc.utoronto.ca <i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p>

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.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 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:

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

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.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 as follows, including at least 4.0 at the C- or D-level of which at least 1.0 must be at the D-level:

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

- [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*
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.
- (1.0 credit)
2. Statistical Methods (1.0 credit)
- [PSYB07H3](#) Data Analysis in Psychology*
and
 - [PSYC08H3](#) Advanced Data Analysis 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. 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.

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
 Associate Chair and Program Supervisor: Konstantine Zakzanis
 Email: psychology-program-supervisor@utsc.utoronto.ca
 Course Support & Program Advisor: Hanan Domloge
 Email: hdomloge@utsc.utoronto.ca

Program Manager: Hanan Domloge
 Undergraduate Advisor: Ainsley Lawson
 Email: psychology-undergraduate@utsc.utoronto.ca

Program Requirements

The program requires 7.0 credits as follows of which at least 2.0 must be at the C- or D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and
[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
and
[PSYC37H3](#) Psychological Assessment
4. [PSYB30H3](#) Personality
and
[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):
 - 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 Requirements

The program requires 7.0 credits as follows of which at least 2.0 must be at the C- or D-level:

1. [PSYA01H3](#) Introductory Psychology: Part I
and
[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
and
[PSYC37H3](#) Psychological Assessment
4. [PSYB30H3](#) Personality
and
[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):
 - 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>Associate Chair and Program Supervisor: Matthias Niemeier Email: psychology-program-supervisor@utsc.utoronto.ca</p> <p>Course Support & Program Advisor: Hanan Domloge Email: hdomloge@utsc.utoronto.ca</p>	<p>Program Manager: Hanan Domloge</p> <p>Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca</p>
Program Requirements	<p>The Program requires completion of 7.0 credits as follows of which at least 2.0 credits must be at the C or D-level:</p> <ol style="list-style-type: none"> PSYA01H3 Introductory Psychology: Part I and PSYA02H3 Introductory Psychology: Part II (1.0 credit) PSYB01H3 Psychological Research Laboratory (0.5 credit) STAB22H3 Statistics I (recommended) or PSYB07H3 Data Analysis in Psychology (0.5 credit) Credits at the B-level and C-level (2.5 full credits) Students are required to take 2.0 credits at the B-level or C-level from group (a) or (b) and 0.5 credit from the other group: <ol style="list-style-type: none"> Social and Developmental (courses listed in the 10- and 20-series); Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 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. Note: A 300-level course in PSY offered on another campus is comparable to a C-level course, even if listed as an exclusion to a D-level course. Hence, a 300-level course may not be used to satisfy the D-level program requirement, although it may be applied as appropriate to other program requirements. Courses at the 400-level count as D-level courses. 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 as follows of which at least 2.0 credits must be at the C or D-level:</p> <ol style="list-style-type: none"> PSYA01H3 Introductory Psychology: Part I and PSYA02H3 Introductory Psychology: Part II (1.0 credit) PSYB01H3 Psychological Research Laboratory (0.5 credit) STAB22H3 Statistics I (recommended) or PSYB07H3 Data Analysis in Psychology (0.5 credit) 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 (a) or (b) and 0.5 credit from the other group: <ol style="list-style-type: none"> Social and Developmental (courses listed in the 10- and 20-series); Perception, Cognition and Physiology (courses listed in the 50- and 60-series) 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. Note: A 300-level course in PSY offered on another campus is comparable to a C-level course, even if listed as an exclusion to a D-level course. Hence, a 300-level course may not be used to satisfy the D-level program requirement, although it may be applied as appropriate to other program requirements. Courses at the 400-level count as D-level courses. 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.

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>Associate Chair and Program Supervisor: Matthias Niemeier Email: psychology-program-supervisor@utsc.utoronto.ca Course Support & Program Advisor: Hanan Domloge Email: hdomloge@utsc.utoronto.ca</p>	<p>Program Manager: Hanan Domloge Undergraduate Advisor: Ainsley Lawson Email: psychology-undergraduate@utsc.utoronto.ca</p>
Program Requirements	<p>The Program requires completion of 4.0 credits as follows of which 1.0 credits must be at the C-level:</p> <ol style="list-style-type: none"> PSYA01H3 Introductory Psychology: Part I and PSYA02H3 Introductory Psychology: Part II (1.0 credit) PSYB01H3 Psychological Research Laboratory (0.5 credit) STAB22H3 Statistics I (recommended) or PSYB07H3 Data Analysis in Psychology (0.5 credit) Students are required to select 0.5 credit at the B-level or C-level from each of the two content groups listed below (1.0 credit): <ol style="list-style-type: none"> Social, Developmental and Personality (courses listed in the 10-, 20- or 30-series); Learning, Perception, Cognition and Physiology (courses listed in the 40-, 50- or 60-series); 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 as follows, of which 1.0 credits must be at the C-level:</p> <ol style="list-style-type: none"> PSYA01H3 Introductory Psychology: Part I and PSYA02H3 Introductory Psychology: Part II (1.0 credit) PSYB01H3 Psychological Research Laboratory (0.5 credit) STAB22H3 Statistics I (recommended) or PSYB07H3 Data Analysis in Psychology (0.5 credit) Students are required to select 0.5 credit at the B-level or C-level from each of the two content groups listed below (1.0 credit): <ol style="list-style-type: none"> Social, Developmental and Personality (courses listed in the 10-, 20- or 30-series); Learning, Perception, Cognition and Physiology (courses listed in the 40-, 50- or 60-series); 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: 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 Email:</i> studio-program-supervisor@utsc.utoronto.ca</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):</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 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: 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>Undergraduate Advisor 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? 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>Undergraduate Advisor (General) Email: studio-program-supervisor@utsc.utoronto.ca</p> <p>Program Advisor: 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

Program notes/tables

Program: SCMIN1666H - Compare

Code	SCMIN1666H	SCMIN1666H
Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	Geography	Geography
Title	MINOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)	MINOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p>Program Requirements</p> <p>This program requires the completion of 4.0 full credits in Geography including:</p> <ol style="list-style-type: none"> GGRA02H3 and GGRA03H3 1.0 credit at the C- or D-level 	<p>The minor program is designed to give students a general introduction to Human Geography. Students are encouraged to select their B, C, and D level courses from one of the three areas of focus: Environmental, Urban or Social/Cultural Geography.</p> <p>Program Requirements</p> <p>This program requires the completion of 4.0 full credits in Geography including:</p> <ol style="list-style-type: none"> GGRA02H3 and GGRA03H3 1.0 credit at the C- or D-level

Program notes/tables

Program: SCSPE0231 - Compare

Code	SCSPE0231	SCSPE0231
Owning Organizations	PHL,PHLSC	PHL,PHLSC
Sections	Philosophy	Philosophy
Title	SPECIALIST PROGRAM IN PHILOSOPHY (ARTS)	SPECIALIST PROGRAM IN PHILOSOPHY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor: W. Seager Email: philosophy-program-supervisor@utsc.utoronto.ca</i></p> <p>Program Requirements</p> <p>Students must complete at least 12.0 credits in Philosophy including PHLB50H3 Symbolic Logic I or PHLB55H3 Puzzles and Paradoxes, and at least 5.0 credits at the C- or D-level of which 1.0 must be at the D-level. MATC09H3 can be used as a Philosophy course for these purposes. Students are encouraged, though not required, to complete at least 0.5 credit as a reading course at the D-level.</p> <p>Note: PHLB99H3 Writing Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.</p>	<p><i>Program Supervisor: W. Seager Email: philosophy-program-supervisor@utsc.utoronto.ca</i></p> <p>Program Requirements</p> <p>Students must complete at least 12.0 credits in Philosophy including PHLB50H3 Symbolic Logic I or PHLB55H3 Puzzles and Paradoxes, and at least 5.0 credits at the C- or D-level of which 1.0 must be at the D-level. MATC09H3 can be used as a Philosophy course for these purposes. Students are encouraged, though not required, to complete at least 0.5 credit as a reading course at the D-level.</p> <p>Note: PHLB99H3 Writing for Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.</p>
Program notes/tables		

Program: SCMAJ0231 - Compare

Code	SCMAJ0231	SCMAJ0231
Owning Organizations	PHL,PHLSC	PHL,PHLSC
Sections	Philosophy	Philosophy
Title	MAJOR PROGRAM IN PHILOSOPHY (ARTS)	MAJOR PROGRAM IN PHILOSOPHY (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor:</i> S. Sedivy <i>Email:</i> philosophy-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements Students must complete at least 7.0 credits in Philosophy including PHLB50H3 Symbolic Logic 1 or PHLB55H3 Puzzles and Paradoxes and at least 3.0 credits must be at the C- or D-level. MATC09H3 can be used as a Philosophy course for these purposes.</p> <p>Note: PHLB99H3 Writing Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.</p>	<p><i>Program Supervisor:</i> S. Sedivy <i>Email:</i> philosophy-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements Students must complete at least 7.0 credits in Philosophy including PHLB50H3 Symbolic Logic 1 or PHLB55H3 Puzzles and Paradoxes and at least 3.0 credits must be at the C- or D-level. MATC09H3 can be used as a Philosophy course for these purposes.</p> <p>Note: PHLB99H3 Writing for Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.</p>

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> Students intending to complete the Major Program in Human Geography are required to take GGRA02H3, and are advised to take one of GGRA03H3 and GGRA30H3 in their first year.</p> <p><i>Guidelines for Major Program completion:</i> Courses in the Major Program in Human Geography are divided into three main subdisciplinary concentrations: Urban Geography, Social/Cultural Geography and Environmental Geography. Major students are welcome to take courses in more than one area of concentration and are advised to take all three of the related Theory and Concepts courses: GGRB05H3 Urban Geography, GGRB13H3 Social Geography, and GGRB21H3 Environments and Environmentalisms.</p> <p>Human Geography Major students are advised to focus after second year, in one of the three following concentrations: Urban, Social/Cultural, and Environmental.</p> <p>URBAN Geography Concentration GGRA03H3 Cities and Environments GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience GGRB05H3 Urban Geography GGRC10H3 Urbanization and Development GGRC11H3 Current Topics in Urban Geography GGRC13H3 Urban Political Geography GGRC27H3 Location and Spatial Development GGRC33H3 The Toronto Region GGRC40H3 Megacities and Global Urbanization GGRC45H3 Local Geographies of Globalization GGRC48H3 Geographies of Urban Poverty GGRC50H3 Geographies of Education GGRD25H3 Research Seminar in Urban Spaces</p> <p>SOCIAL/CULTURAL Geography Concentration GGRA02H3 The Geography of Global Processes GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience GGRB13H3 Social Geography GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography GGRC02H3 Population Geography GGRC09H3 Current Topics in Social Geography GGRC24H3 Socio-Natures and the Cultural Politics of 'The Environment' GGRC31H3 Qualitative Geographical Methods: Place and Ethnography GGRC45H3 Local Geographies of Globalization GGRC50H3 Geographies of Education GGRC56H3 Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities GGRD09H3 Feminist Geographies GGRD10H3 Health and Sexuality GGRD19H3 Spaces of Multiraciality: Critical Mixed Race Theory</p> <p>ENVIRONMENTAL Geography Concentration GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments</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> 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> 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>Program Requirements The Major Program in Human Geography requires a total of 7.0 full credits as follows:</p> <p>1. Theory and Concepts in Human Geography GGRA02H3 The Geography of Global Processes GGRB02H3 The Logic of Geographical Thought and 1.5 credits from: GGRB05H3 Urban Geography GGRB13H3 Social Geography GGRB21H3 Environments and Environmentalisms GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography</p> <p>2. Methods (1.0 credit) GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning and one of: GGRB30H3 Fundamentals of GIS I GGRC31H3 Qualitative Geographical Methods: Place and Ethnography GGR270H Introductory Analytical Methods GGR271H Social Research Methods STAB22H3 Statistics I or equivalent</p> <p>3. Applications (at least 2.0 credits from among the following): GGRC01H3 Supervised Readings in Human Geography GGRC02H3 Population Geography GGRC09H3 Current Topics in Social Geography GGRC10H3 Urbanization and Development GGRC11H3 Current Topics in Urban Geography GGRC13H3 Urban Political Geography GGRC21H3 Current Topics in Environmental Geography GGRC22H3 Political Ecology Theory and Applications GGRC24H3 Socio-Natures and the Cultural Politics of 'The Environment' GGRC25H3 Land Reform and Development GGRC26H3 Geographies of Environmental Governance GGRC27H3 Location and Spatial Development GGRC33H3 The Toronto Region GGRC40H3 Megacities and Global Urbanization</p>

[GGRB21H3](#) Environments and Environmentalisms
[GGRC21H3](#) Current Topics in Environmental Geography
[GGRC22H3](#) Political Ecology Theory and Applications
[GGRC24H3](#) Socio-Natures and the Cultural Politics of 'The Environment'
[GGR25H3](#) Land Reform and Development
[GGRC26H3](#) Geographies of Environmental Governance
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[GGRD08H3](#) Research Seminar in Environmental Geography

[GGRC41H3](#) Current Topics in Human Geography
[GGRC44H3](#) Environmental Conservation and Sustainable Development
[GGRC45H3](#) Local Geographies of Globalization
[GGRC48H3](#) Geographies of Urban Poverty
[GGRC50H3](#) Geographies of Education
[GGRC54H3](#) Human Geography Field Trip
[GGRC56H3](#) Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities
[GGRD01H3](#) Supervised Research Project
[GGRD08H3](#) Research Seminar in Environmental Geography
[GGRD09H3](#) Feminist Geographies
[GGRD10H3](#) Health and Sexuality
[GGRD11H3](#) Advanced Geographical Theory and Methods
[GGRD19H3](#) Spaces of Multiraciality: Critical Mixed Race Theory
[GGRD25H3](#) Research Seminar in Urban Spaces

Program Requirements

The Major Program in Human Geography requires a total of 7.0 full credits as follows:

1. Theory and Concepts in Human Geography

[GGRA02H3](#) The Geography of Global Processes

[GGRB02H3](#) The Logic of Geographical Thought

and

1.5 credits from:

[GGRB05H3](#) Urban Geography

[GGRB13H3](#) Social Geography

[GGRB21H3](#) Environments and Environmentalisms

[GGRB28H3](#) Geographies of Disease

[GGRB55H3](#) Cultural Geography

2. Methods (1.0 credit)

[GGRA30H3](#) Geographic Information Systems (GIS) and

Empirical Reasoning

and one of:

[GGRB30H3](#) Fundamentals of GIS I

[GGRC31H3](#) Qualitative Geographical Methods: Place and

Ethnography

GGR270H Introductory Analytical Methods

GGR271H Social Research Methods

[STAB22H3](#) Statistics I or equivalent

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

[GGRC01H3](#) Supervised Readings in Human Geography

[GGRC02H3](#) Population Geography

[GGRC09H3](#) Current Topics in Social Geography

[GGRC10H3](#) Urbanization and Development

[GGRC11H3](#) Current Topics in Urban Geography

[GGRC13H3](#) Urban Political Geography

[GGRC21H3](#) Current Topics in Environmental Geography

[GGRC22H3](#) Political Ecology Theory and Applications

[GGRC24H3](#) Socio-Natures and the Cultural Politics of 'The Environment'

[GGRC25H3](#) Land Reform and Development

[GGRC26H3](#) Geographies of Environmental Governance

[GGRC27H3](#) Location and Spatial Development

[GGRC33H3](#) The Toronto Region

[GGRC40H3](#) Megacities and Global Urbanization

[GGRC41H3](#) Current Topics in Human Geography

[GGRC44H3](#) Environmental Conservation and Sustainable Development

[GGRC45H3](#) Local Geographies of Globalization

[GGRC48H3](#) Geographies of Urban Poverty

[GGRC50H3](#) Geographies of Education

[GGRC54H3](#) Human Geography Field Trip

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

[GGRD01H3](#) Supervised Research Project

[GGRD08H3](#) Research Seminar in Environmental Geography

[GGRD09H3](#) Feminist Geographies

[GGRD10H3](#) Health and Sexuality

[GGRD11H3](#) Advanced Geographical Theory and Methods

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

[GGRD25H3](#) Research Seminar in Urban Spaces

4. 1.5 additional credits to be selected from [GGRA03H3](#), or the courses listed in Requirements 1, 2 and 3 above.

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:</i> R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</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 three 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:</i> R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca</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 three 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>

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), (LGA99H3), [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 for Computer Scientists
- [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

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), (LGA99H3), [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

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

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

[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

[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:

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.

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

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](#).

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](#).

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) Email: 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 for Computer Scientists 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) Email: 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>

[ENGB51H3](#), [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3),
(HISA01H3), (HLTA01H3), (HUMA01H3), (HUMA11H3), (HUMA17H3),
(LGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

~~[ENGB51H3](#)~~, [GGRA02H3](#), [GGRA03H3](#), [GGRB05H3](#), (GGRB06H3),
(HISA01H3), (HLTA01H3), (HUMA01H3), (HUMA11H3), (HUMA17H3),
(LGA99H3), [LINA01H3](#), [PHLA10H3](#), [PHLA11H3](#), [WSTA01H3](#).

Program notes/tables

Program: SCSPE1165 - Compare

Code	SCSPE1165	SCSPE1165
Owning Organizations	MAT, MSCSC	MAT, MSCSC
Sections	Mathematics	Mathematics
Title	SPECIALIST PROGRAM IN MATHEMATICS (SCIENCE)	SPECIALIST PROGRAM IN MATHEMATICS (SCIENCE)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Supervisor of Studies:</i> E. Moore (416-287-7267) <i>Email:</i> emoore@utsc.utoronto.ca</p> <p>Program Objectives</p> <p>This program provides the student with a sound foundation in the main areas of mathematics, and some exposure to computer programming and statistics. It comprises four streams: Comprehensive, Statistics, Teaching, and Design-Your-Own, each serving a more specific goal.</p> <p>The Comprehensive Stream provides a broad and deep knowledge of mathematics at the undergraduate level. It is the recommended program for students who plan to pursue graduate study in mathematics, but it is also suitable for other career paths.</p> <p>The Statistics Stream provides greater exposure to statistics, and the areas of mathematics most closely associated with it. This stream prepares students for careers in industry, or for graduate study in certain mathematically-oriented subjects, including statistics and financial mathematics.</p> <p>The Teaching Stream is intended for students with a serious interest in mathematics but whose career objectives lie in mathematics education at the elementary or secondary level.</p> <p>The Design-Your-Own Stream allows students to tailor their studies in mathematics to specific interests, with guidance from (and approval of) the program supervisor.</p> <p>Program Requirements</p> <p>The Program requirements consist of a core 15 courses (7.5 credits), common to all four streams, and additional requirements that depend on the stream, for a total of 26-28 courses (13.0-14.0 credits).</p> <p>The structure of the programs allows for easy switching between streams until relatively late. Consequently, these programs should not be viewed as rigidly separated channel's feeding students to different career paths, but as a flexible structure that provides guidance to students in their course selection based on their broad (but possible fluid) interests.</p> <p>Core (7.5 credits)</p> <p>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), (LGA99H3), LINA01H3, PHLA10H3, WSTA01H3. (*) It is recommended that this requirement be satisfied by the end of the second year.</p> <p>2. A-level courses (2.5 credits) CSCA67H3 Discrete Mathematics for Computer Scientists MATA23H3 Linear Algebra I MATA31H3 Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences CSCA08H3 Introduction to Computer Science I</p> <p>3. B-level courses (3.5 credits) MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB43H3 Introductions to Analysis MATB44H3 Differential Equations I STAB52H3 Introduction to Probability (**) STAB57H3 Introduction to Statistics (**)</p>	<p><i>Supervisor of Studies:</i> E. Moore (416-287-7267) <i>Email:</i> emoore@utsc.utoronto.ca</p> <p>Program Objectives</p> <p>This program provides the student with a sound foundation in the main areas of mathematics, and some exposure to computer programming and statistics. It comprises four streams: Comprehensive, Statistics, Teaching, and Design-Your-Own, each serving a more specific goal.</p> <p>The Comprehensive Stream provides a broad and deep knowledge of mathematics at the undergraduate level. It is the recommended program for students who plan to pursue graduate study in mathematics, but it is also suitable for other career paths.</p> <p>The Statistics Stream provides greater exposure to statistics, and the areas of mathematics most closely associated with it. This stream prepares students for careers in industry, or for graduate study in certain mathematically-oriented subjects, including statistics and financial mathematics.</p> <p>The Teaching Stream is intended for students with a serious interest in mathematics but whose career objectives lie in mathematics education at the elementary or secondary level.</p> <p>The Design-Your-Own Stream allows students to tailor their studies in mathematics to specific interests, with guidance from (and approval of) the program supervisor.</p> <p>Program Requirements</p> <p>The Program requirements consist of a core 15 courses (7.5 credits), common to all four streams, and additional requirements that depend on the stream, for a total of 26-28 courses (13.0-14.0 credits).</p> <p>The structure of the programs allows for easy switching between streams until relatively late. Consequently, these programs should not be viewed as rigidly separated channel's feeding students to different career paths, but as a flexible structure that provides guidance to students in their course selection based on their broad (but possible fluid) interests.</p> <p>Core (7.5 credits)</p> <p>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), (LGA99H3), LINA01H3, PHLA10H3, WSTA01H3. (*) It is recommended that this requirement be satisfied by the end of the second year.</p> <p>2. A-level courses (2.5 credits) CSCA67H3 Discrete Mathematics MATA23H3 Linear Algebra I MATA31H3 Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences CSCA08H3 Introduction to Computer Science I</p> <p>3. B-level courses (3.5 credits) MATB24H3 Linear Algebra II MATB41H3 Techniques of the Calculus of Several Variables I MATB42H3 Techniques of the Calculus of Several Variables II MATB43H3 Introductions to Analysis MATB44H3 Differential Equations I STAB52H3 Introduction to Probability (**) STAB57H3 Introduction to Statistics (**)</p>

(**) This course may be taken after second year, except for the Statistics stream.

4. **C-level courses** (1 credit)

[MATC01H3](#) Groups and Symmetry

[MATC34H3](#) Complex Variables

A. Comprehensive Stream

This stream requires a total of 28 courses (14.0 credits)

In addition to the core requirements 1-4 common to all streams, 13 other distinct courses must be chosen satisfying all of the following requirements:

5. **Elementary courses in closely related disciplines** (1.5 credits): (**)

[CSCA48H3](#) Introduction to Computer Science II

[PHYA10H3](#) Introduction to Physics IA

[PHYA21H3](#) Introduction to Physics IIA

(**) It is recommended that these be taken in first year.

6. **Additional courses in analysis and algebra** (1.5 credits):

[MATC37H3](#) Introduction to Real Analysis

[MATC46H3](#) Differential Equations II

[MATD01H3](#) Fields and Groups

7. **Courses in key areas of mathematics** (1.5 credits):

Three of:

[MATC15H3](#) Introduction to Number Theory

[MATC27H3](#) Introduction to Topology

[MATD02H3](#) Classical Plane Geometries and their Transformations

[MATD34H3](#) Complex Variables II

8. **Mathematics of computation** (0.5 credit):

One of:

[MATC09H3](#) Introduction to Mathematical Logic

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics

[CSCC63H3](#) Computability and Computational Complexity

9. **Electives** (1.5 credits):

Three of:

C- or D-level MAT courses, excluding [MATC82H3](#) and [MATC90H3](#)

B. Statistics Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements (in choosing courses to satisfy requirements 7-9, students must select at least one D-level course).

5. **Algebra and Analysis** (1.5 credits):

[MATB61H3](#) Linear Programming and Optimization

[MATC46H3](#) Differential Equations II

[MATD01H3](#) Fields and Groups

6. **Regression Analysis** (0.5 credit):

[STAC67H3](#) Regression Analysis

7. **Discrete mathematics and geometry** (0.5 credit):

One of:

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

[MATD02H3](#) Classical Plane Geometries and their Transformations

8. **Upper-level MAT electives** (1 credit):

Two of:

Any C- or D-level MAT courses (*)

(*) For students wishing to pursue graduate studies in Mathematics or Statistics it is recommended that [MATC37H3](#) be chosen as one of these two courses.

9. **Upper-level STA electives** (2 credits):

Four of:

(ACTB47H3) Introductory Life Contingencies

Any C- or D-level STA course, excluding [STAD29H3](#)

(**) This course may be taken after second year, except for the Statistics stream.

4. **C-level courses** (1 credit)

[MATC01H3](#) Groups and Symmetry

[MATC34H3](#) Complex Variables

A. Comprehensive Stream

This stream requires a total of 28 courses (14.0 credits)

In addition to the core requirements 1-4 common to all streams, 13 other distinct courses must be chosen satisfying all of the following requirements:

5. **Elementary courses in closely related disciplines** (1.5 credits): (**)

[CSCA48H3](#) Introduction to Computer Science II

[PHYA10H3](#) Introduction to Physics IA

[PHYA21H3](#) Introduction to Physics IIA

(**) It is recommended that these be taken in first year.

6. **Additional courses in analysis and algebra** (1.5 credits):

[MATC37H3](#) Introduction to Real Analysis

[MATC46H3](#) Differential Equations II

[MATD01H3](#) Fields and Groups

7. **Courses in key areas of mathematics** (1.5 credits):

Three of:

[MATC15H3](#) Introduction to Number Theory

[MATC27H3](#) Introduction to Topology

[MATD02H3](#) Classical Plane Geometries and their Transformations

[MATD34H3](#) Complex Variables II

8. **Mathematics of computation** (0.5 credit):

One of:

[MATC09H3](#) Introduction to Mathematical Logic

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

[CSCC37H3](#) Introduction to Numerical Algorithms for Computational Mathematics

[CSCC63H3](#) Computability and Computational Complexity

9. **Electives** (1.5 credits):

Three of:

C- or D-level MAT courses, excluding [MATC82H3](#) and [MATC90H3](#)

B. Statistics Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements (in choosing courses to satisfy requirements 7-9, students must select at least one D-level course).

5. **Algebra and Analysis** (1.5 credits):

[MATB61H3](#) Linear Programming and Optimization

[MATC46H3](#) Differential Equations II

[MATD01H3](#) Fields and Groups

6. **Regression Analysis** (0.5 credit):

[STAC67H3](#) Regression Analysis

7. **Discrete mathematics and geometry** (0.5 credit):

One of:

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

[MATD02H3](#) Classical Plane Geometries and their Transformations

8. **Upper-level MAT electives** (1 credit):

Two of:

Any C- or D-level MAT courses (*)

(*) For students wishing to pursue graduate studies in Mathematics or Statistics it is recommended that [MATC37H3](#) be chosen as one of these two courses.

9. **Upper-level STA electives** (2 credits):

Four of:

(ACTB47H3) Introductory Life Contingencies

Any C- or D-level STA course, excluding [STAD29H3](#)

C. Teaching Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements:

5. **Algebra, analysis, and geometry** (2 credits):

[MATC15H3](#) Introduction to Number Theory

[MATC82H3](#) Mathematics for Teachers

[MATD01H3](#) Fields and Groups

[MATD02H3](#) Classical Plane Geometries and their Transformations

6. **Discrete mathematics** (0.5 credit):

One of:

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

7. **MAT electives** (1.5 credits):

Three of:

C- or D-level MAT courses

8. **MAT/STA/CSC electives** (1.5 credits):

Three of:

C- or D-level MAT, STA, CSC courses, excluding [STAD29H3](#)

D. Design-Your-Own-Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying the following requirement:

5. **Electives** (5.5 credits):

11 courses approved by the program supervisor. The core courses together with the approved electives must satisfy the degree requirement so that they include at least 12 courses (6 credits) at the C- or D-level, of which at least two (one credit) are at the D-level.

C. Teaching Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements:

5. **Algebra, analysis, and geometry** (2 credits):

[MATC15H3](#) Introduction to Number Theory

[MATC82H3](#) Mathematics for Teachers

[MATD01H3](#) Fields and Groups

[MATD02H3](#) Classical Plane Geometries and their Transformations

6. **Discrete mathematics** (0.5 credit):

One of:

[MATC32H3](#) Graph Theory and Algorithms for its Applications

[MATC44H3](#) Introduction to Combinatorics

7. **MAT electives** (1.5 credits):

Three of:

C- or D-level MAT courses

8. **MAT/STA/CSC electives** (1.5 credits):

Three of:

C- or D-level MAT, STA, CSC courses, excluding [STAD29H3](#)

D. Design-Your-Own-Stream

This stream requires a total of 26 courses (13.0 credits).

In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying the following requirement:

5. **Electives** (5.5 credits):

11 courses approved by the program supervisor. The core courses together with the approved electives must satisfy the degree requirement so that they include at least 12 courses (6 credits) at the C- or D-level, of which at least two (one credit) are at the D-level.

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>Supervisor: J. Nash Email: cell-and-molecular-biology@utsc.utoronto.ca Co-op Contact: 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 <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>. <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 This program consists of 14.0 required credits plus two work-terms.</p> <p>A. Course Requirements <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 I: Reactions and Mechanisms</p> <p>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]</p> <p>1.0 Credit in Physics Choose 0.5 credit from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</p>	<p>Supervisor: C. Hasenkamp Email: molecular-biology-biotechnology@utsc.utoronto.ca Co-op Contact: 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 <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>. <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 This program consists of 14.0 required credits plus two work-terms.</p> <p>A. Course Requirements <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 I: Reactions and Mechanisms</p> <p>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]</p> <p>1.0 Credit in Physics Choose 0.5 credit from: PHYA10H3 Introduction to Physics IA PHYA11H3 Introduction to Physics IB</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
 [([BIOB30H3](#)) Mammalian Physiology I or ([BIOB34H3](#)) Animal Physiology]
 [([BIOB31H3](#)) Plant Physiology or ([BIOB38H3](#)) Plants and Society]
[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
 (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

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
 (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 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.

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.

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 and Certified General 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/(MGTB03H3) and (MGTA02H3/(MGTB04H3))] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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) Leadership 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 MGEB12H3/(ECMB12H3) Quantitative Methods in Economics and 1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]</p>	<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/(MGTB03H3) and (MGTA02H3/(MGTB04H3))] MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3) MGAB01H3/(MGTB05H3) Introductory Financial Accounting MGAB02H3/(MGTB06H3) Introductory Financial Accounting 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 MGEB12H3/(ECMB12H3) Quantitative Methods in Economics 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>

4. (3.5 credits):

- [MGAC01H3](#)/(MGTC07H3) Intermediate Financial Accounting
- [MGAC02H3](#)/(MGTC08H3) Intermediate Financial Accounting
- [MGAC03H3](#)/(MGTC06H3) Intermediate Management Accounting
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business
- [MGAC50H3](#)/(MGTC16H3) Canadian Income Taxation
- [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
- [MGAD60H3](#)/(MGTD55H3) Controversial Issues in 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 either pursue a Chartered Professional Accountancy or Certified General Accountancy post graduation. Chartered Professional Accountancy (CPA) requirements are currently in transition and students can follow either the Legacy Chartered Accountancy requirements or the Chartered Professional Accountancy.

Requirements:

- **Legacy 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 & one of [MGAD40H3](#)/(MGTD54H3) Management Control Systems, [MGAD60H3](#)/(MGTD55H3) Controversial Issues in Accounting, or [MGAD70H3](#)/(MGTD56H3) Advanced Accounting Case Analysis
- **Chartered Professional Accountancy (CPA) requirements:** Students interested in CPA designation must also complete: [MGSC01H3](#)/(MGTC41H3) Corporate Strategy, [MGAD40H3](#)/(MGTD54H3) Management Control Systems, & [MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting.
- **Certified General Accountants (CGA) requirements:** Students who wish to be eligible for a "block transfer" of credits into CGA PACE studies must also complete: [MGAC60H3](#)/(MGTC17H3) Canadian Income Taxation II, [MGAD40H3](#)/(MGTD54H3) Management Control Systems, [MGAD50H3](#)/(MGTD50H3) Advanced Financial Accounting & [MGAD60H3](#)/(MGTD55H3) Controversial Issues in Accounting.
- The advanced auditing courses - [MGAD20H3](#)/(MGTD61H3) Advanced Auditing & [MGAD30H3](#)/(MGTD62H3) Auditing in a Computer Environment - are part of post graduate CGA professional studies and students who take these courses as part of their degree studies should be aware that they will still be required to write CGA challenge exams.
- **Other:** Regardless of which professional accounting path students are interested in pursuing, they are strongly advised to refer to the web-sites of the two professional accounting organizations to be aware of their specified minimum grade requirements, and any changes that may occur between updates of the description of this program in the UTSC Calendar.

- [MGAC01H3](#)/(MGTC07H3) Intermediate Financial Accounting
- [MGAC02H3](#)/(MGTC08H3) Intermediate Financial Accounting
- [MGAC03H3](#)/(MGTC06H3) Intermediate Management Accounting
- [MGSC30H3](#)/(MGTC31H3) The Legal Environment of Business
- [MGAC50H3](#)/(MGTC16H3) Canadian Income Taxation
- [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
- [MGAD60H3](#)/(MGTD55H3) Controversial Issues in 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>

Program notes/tables

Program: SCSPE1645 - Compare

Code	SCSPE1645	SCSPE1645
Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	English	English
Title	SPECIALIST PROGRAM IN ENGLISH (ARTS)	SPECIALIST PROGRAM IN ENGLISH (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor:</i> Until June 30, 2014: Maria Assif (416-208-2725). After July 1, 2014: TBA.</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p>	<p><i>Program Supervisor:</i> Until June 30, 2015: Alice Maurice (416-287-7180). After July 1, 2015: TBA.</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p>
Program Requirements	<p>12.0 credits in English are required of which at least 3.0 must be at the C-level and 1.5 at the D-level. They should be selected as follows:</p> <ol style="list-style-type: none"> ENGB03H3 Critical Thinking About Narrative ENGB04H3 Critical Thinking About Poetry ENGB05H3 Critical Writing about Literature ENGB27H3 Charting Literary History I ENGB28H3 Charting Literary History II 2.0 credits from courses whose content is pre-1900 0.5 credits in Canadian literature 7.0 additional credits in English <p>Note: Students may count no more than one of the following courses towards the Specialist requirements: ENGB35H3 Children's Literature (ENGB36H3) Detective Fiction (ENGB41H3) Science Fiction Students may count no more than one full credit of D-level independent study ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3) towards an English program. The following courses do not count towards any English programs: ENG100H, ENG185Y.</p>	<p>12.0 credits in English are required of which at least 3.0 must be at the C-level and 1.5 at the D-level. They should be selected as follows:</p> <ol style="list-style-type: none"> ENGB03H3 Critical Thinking About Narrative ENGB04H3 Critical Thinking About Poetry ENGB05H3 Critical Writing about Literature ENGB27H3 Charting Literary History I ENGB28H3 Charting Literary History II 2.0 credits from courses whose content is pre-1900 0.5 credits in Canadian literature 7.0 additional credits in English <p>Note: Students may count no more than one of the following courses towards the Specialist requirements: ENGB35H3 Children's Literature (ENGB36H3) Detective Fiction (ENGB41H3) Science Fiction Students may count no more than one full credit of D-level independent study ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3) towards an English program. The following courses do not count towards any English programs: ENG100H, ENG185Y.</p>

Program notes/tables

Program: SCMAJ1645 - Compare

Code	SCMAJ1645	SCMAJ1645
Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	English	English
Title	MAJOR PROGRAM IN ENGLISH (ARTS)	MAJOR PROGRAM IN ENGLISH (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor:</i> Until June 30, 2014: Maria Assif (416-208-2725). After July 1, 2014: TBA</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p>	<p><i>Program Supervisor:</i> Until June 30, 2015: A. Maurice (416-287-7180). After July 1, 2015: TBA</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p>

Program Requirements

7.5 credits in English are required of which at least 2.0 must be at the C- or D-level. They should be selected as follows:

1. [ENGB03H3](#) Critical Thinking About Narrative
2. [ENGB04H3](#) Critical Thinking About Poetry
3. [ENGB05H3](#) Critical Writing about Literature
4. [ENGB27H3](#) Charting Literary History I
5. [ENGB28H3](#) Charting Literary History II
6. 1.0 credit from courses whose content is pre-1900
7. 0.5 credit at the D-level in ENG courses
8. 3.5 additional credits in English

Notes:

1. Students may count no more than one of the following courses towards the Major requirements: [ENGB35H3](#) Children's Literature, (ENGB36H3) Detective Fiction, (ENGB41H3) Science Fiction.
2. Students may count no more than one full credit of D-level independent study [[ENGD26Y3](#), [ENGD27Y3](#), [ENGD28Y3](#), (ENGD97H3), [ENGD98Y3](#), (ENGD99H3)] towards an English program.
3. The following courses do not count towards any English programs: ENG100H, ENG185Y.

Program Requirements

7.5 credits in English are required of which at least 2.0 must be at the C- or D-level. They should be selected as follows:

1. [ENGB03H3](#) Critical Thinking About Narrative
2. [ENGB04H3](#) Critical Thinking About Poetry
3. [ENGB05H3](#) Critical Writing about Literature
4. [ENGB27H3](#) Charting Literary History I
5. [ENGB28H3](#) Charting Literary History II
6. 1.0 credit from courses whose content is pre-1900
7. 0.5 credit at the D-level in ENG courses
8. 3.5 additional credits in English

Notes:

1. Students may count no more than one of the following courses towards the Major requirements: [ENGB35H3](#) Children's Literature, (ENGB36H3) Detective Fiction, (ENGB41H3) Science Fiction.
2. Students may count no more than one full credit of D-level independent study [[ENGD26Y3](#), [ENGD27Y3](#), [ENGD28Y3](#), (ENGD97H3), [ENGD98Y3](#), (ENGD99H3)] towards an English program.
3. The following courses do not count towards any English programs: ENG100H, ENG185Y.

Program notes/tables

Program: SCMIN1645 - Compare

Code	SCMIN1645	SCMIN1645
Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	English	English
Title	MINOR PROGRAM IN ENGLISH LITERATURE (ARTS)	MINOR PROGRAM IN ENGLISH LITERATURE (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Program Supervisor:</i> Until June 30, 2014: Maria Assif (416-208-2725). After July 1, 2014: TBA</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements 4.0 credits in English are required. They should be selected as follows:</p> <ol style="list-style-type: none"> ENGB03H3 Critical Thinking About Narrative ENGB04H3 Critical Thinking About Poetry ENGB05H3 Critical Writing about Literature 1.0 credits at the C-level 1.5 additional credits in English. <p>Students may count no more than one full credit of D-level independent study [ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3)] towards an English program.</p> <p>The following courses do not count towards any English programs: ENG100H, ENG185Y.</p>	<p><i>Program Supervisor:</i> Until June 30, 2015: A. Maurice (416-287-7180). After July 1, 2015: TBA</p> <p>Email: english-program-supervisor@utsc.utoronto.ca</p> <p>Program Requirements 4.0 credits in English are required. They should be selected as follows:</p> <ol style="list-style-type: none"> ENGB03H3 Critical Thinking About Narrative ENGB04H3 Critical Thinking About Poetry ENGB05H3 Critical Writing about Literature 1.0 credits at the C-level 1.5 additional credits in English. <p>Students may count no more than one full credit of D-level independent study [ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3)] towards an English program.</p> <p>The following courses do not count towards any English programs: ENG100H, ENG185Y.</p>

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	<p><i>Program Supervisor:</i> Konstantine Zakzanis <i>Course Support & Program Advisor:</i> Hanan Domloge. Email: hdomloge@utsc.utoronto.ca</p>	<p><i>Program Manager:</i> Hanan Domloge <i>Undergraduate Advisor:</i> Ainsley Lawson. Email: psychology-undergraduate@utsc.utoronto.ca <i>Co-op Contact:</i> askcoop@utsc.utoronto.ca</p>

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 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](#) Advances Data Analysis in Psychology*
3. Laboratory Methods (1.5 credits)
 - a. [PSYB01H3](#) Psychological Research Laboratory*
and
 - b. [PSYC32H3](#) Clinical Neuropsychology Laboratory*
and

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](#) Advances Data Analysis in Psychology*
3. Laboratory Methods (1.5 credits)
 - a. [PSYB01H3](#) Psychological Research Laboratory*
and

- c. [PSYC37H3](#) Psychological Assessment**
- 4. [PSYC02H3](#) Scientific Communication in Psychology* (0.5 credit)
- 5. History & Approaches (0.5 credit)
 - 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.

***NOTE: [MGTA06H3](#) has prerequisites that are not requirements of this program.

* These credits must be successfully completed before the first work term.

** These credits must be successfully completed before the second work term.

***NOTE: [MGTA06H3](#) has prerequisites that are not requirements of this program.

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	<i>Undergraduate Advisor:</i> 416-287-7184 <i>Email:</i> classics-undergrad-advisor@utsc.utoronto.ca	<i>Undergraduate Advisor:</i> 416-287-7184 <i>Email:</i> classics-undergrad-advisor@utsc.utoronto.ca
	Program Requirements Students must complete four full credits, as follows:	Program Requirements Students must complete four full credits, as follows:
	1. Introduction CLAA04H3 The Ancient Mediterranean World	1. Introduction CLAA04H3 The Ancient Mediterranean World
	2. History and Culture CLAB05H3 History and Culture of the Greek World CLAB06H3 History and Culture of the Roman World	2. History and Culture CLAB05H3 History and Culture of the Greek World CLAB06H3 History and Culture of the Roman World
	3. Mythology and Religion CLAA06H3 Ancient Mythology II: Greece and Rome	3. Mythology and Religion CLAA06H3 Ancient Mythology II: Greece and Rome
	4. Literature (0.5 credit from the following courses) CLAC11H3 Classical Literature I: Poetry CLAC12H3 Classical Literature II: Prose	4. Literature (0.5 credit from the following courses) CLAC11H3 Classical Literature I: Poetry CLAC12H3 Classical Literature II: Prose
	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 <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 <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 <i>Languages</i> (LGA50H3) Introductory Latin I (LGA51H3) Introductory Latin II (LGA54H3) Introductory Sanskrit I (LGA55H3) Introductory Sanskrit II (LGB54H3) Intermediate Sanskrit I (LGB55H3) Intermediate Sanskrit II <i>Music</i> VPMC93H3 Orpheus <i>Philosophy</i>	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 <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 <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 <i>Languages</i> (LGA50H3) Introductory Latin I (LGA51H3) Introductory Latin II (LGA54H3) Introductory Sanskrit I (LGA55H3) Introductory Sanskrit II (LGB54H3) Intermediate Sanskrit I (LGB55H3) Intermediate Sanskrit II <i>Music</i> VPMC93H3 Orpheus <i>Philosophy</i>

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.

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.

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. Cheredeko (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> <ol style="list-style-type: none"> Foundational courses - 5.5 credits as follows: CSCA67H3 Discrete Mathematics for Computer Scientists 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>(*) MATA31H3 is required for MATA37H3</p> <ol style="list-style-type: none"> Further analysis courses - 1.0 credit form the following: MATB43H3 Introduction to Analysis MATC27H3 Introduction to Topology MATC34H3 Complex Variables MATC35H3 Chaos, Fractals, and Dynamics MATC37H3 Introduction to Real Analysis MATC46H3 Differential Equations II MATD34H3 Complex Variables II <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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>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. Cheredeko (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> <ol style="list-style-type: none"> Foundational courses - 5.5 credits as follows: 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>(*) MATA31H3 is required for MATA37H3</p> <ol style="list-style-type: none"> Further analysis courses - 1.0 credit form the following: MATB43H3 Introduction to Analysis MATC27H3 Introduction to Topology MATC34H3 Complex Variables MATC35H3 Chaos, Fractals, and Dynamics MATC37H3 Introduction to Real Analysis MATC46H3 Differential Equations II MATD34H3 Complex Variables II <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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>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: 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	<p><i>Supervisor of Studies: S. Damouras Email: sdamouras@utsc.utoronto.ca (416-208-4794)</i></p> <p>Program Objectives</p> <p>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.</p> <p>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</p> <p>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.</p> <p>Program Requirements</p> <p>To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses.)</p> <p>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.</p> <p>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.</p> <p>Core (7.5 credits)</p> <p>1. Writing Requirement (0.5 credit) (*)</p> <p>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), (LGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p> <p>(*) It is recommended that this requirement be satisfied by the end of the second year.</p> <p>2. A-level courses (2.5 credits)</p> <p>CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II MATA23H3 Linear Algebra I</p> <p>One of:</p>	<p><i>Supervisor of Studies: S. Damouras Email: sdamouras@utsc.utoronto.ca (416-208-4794)</i></p> <p>Program Objectives</p> <p>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.</p> <p>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</p> <p>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.</p> <p>Program Requirements</p> <p>To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses.)</p> <p>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.</p> <p>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.</p> <p>Core (7.5 credits)</p> <p>1. Writing Requirement (0.5 credit) (*)</p> <p>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), (LGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p> <p>(*) It is recommended that this requirement be satisfied by the end of the second year.</p> <p>2. A-level courses (2.5 credits)</p> <p>CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II MATA23H3 Linear Algebra I</p> <p>One of:</p>

[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), [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEA02H3](#)/(ECMA02H3)), 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](#) Discrete Mathematics for Computer Scientists

7. Additional B-level courses (1.0 credit)

Two of:

[CSCB07H3](#) Software Design

[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), [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEA02H3](#)/(ECMA02H3), [MGEA06H3](#)/(ECMA06H3), [MGEA02H3](#)/(ECMA02H3)), 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](#)/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.

[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.

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:</i>K. Butler (416 287-5654) <i>Email:</i> butler@utsc.utoronto.ca</p> <p><i>Recommended Writing Course:</i> 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), (LGGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p>	<p><i>Supervisor of Studies:</i>K. Butler (416 287-5654) <i>Email:</i> butler@utsc.utoronto.ca</p> <p><i>Recommended Writing Course:</i> 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), (LGGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.</p>
Program Requirements	This program requires 8.0 full credits.	This program requires 8.0 full credits.
1. A-level courses	<p>One of: CSCA08H3 Introduction to Computer Science I CSCA20H3 Computer Science for the Sciences MATA23H3 Linear Algebra I</p> <p>One of: MATA30H3 Calculus I for Biological and Physical Sciences MATA31H3 Calculus I for Mathematical Sciences*</p> <p>One of: MATA36H3 Calculus II for Physical Sciences MATA37H3 Calculus II for Mathematical Sciences*</p> <p>*The sequence MATA31H3 and MATA37H3 is recommended. MATA31H3 is the pre-requisite for MATA37H3.</p>	<p>One of: CSCA08H3 Introduction to Computer Science I CSCA20H3 Computer Science for the Sciences MATA23H3 Linear Algebra I</p> <p>One of: MATA30H3 Calculus I for Biological and Physical Sciences MATA31H3 Calculus I for Mathematical Sciences*</p> <p>One of: MATA36H3 Calculus II for Physical Sciences MATA37H3 Calculus II for Mathematical Sciences*</p> <p>*The sequence MATA31H3 and MATA37H3 is recommended. MATA31H3 is the pre-requisite for MATA37H3.</p>
2. B-level courses	<p>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>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>
Upper-level courses	<p>STAC67H3 Regression Analysis*</p> <p>Four of: any C- or D-level (or 300-400 on St. George) STA courses, except STAD29H3</p> <p>Two of: ACTB40H3, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses</p> <p>* STAB52H3, STAB57H3, STAC67H3 - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor.</p>	<p>STAC67H3 Regression Analysis*</p> <p>Four of: any C- or D-level (or 300-400 on St. George) STA courses, except STAD29H3</p> <p>Two of: ACTB40H3, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses</p> <p>* 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: 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 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 The program requires the completion of the following 15.0 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] 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: 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: 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: 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: CHMC11H3 Principles of Analytical Instrumentation CHMC31Y3 Intermediate Inorganic Chemistry CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year: 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 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 The program requires the completion of the following 15.0 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] 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: 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: 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: 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: CHMC11H3 Principles of Analytical Instrumentation CHMC31Y3 Intermediate Inorganic Chemistry CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]</p> <p>Fourth Year: CHMD79H3 Topics in Biological Chemistry 1.5 full credits in D-level or 400-level CHM courses including one of the</p>

following courses:

[CHMD90Y3](#) Directed Research
[CHMD91H3](#) Directed Research
[CHMD92H3](#) Advanced Organic Chemistry Lab Course

and at least 0.5 full credit from the following:

[CHMD69H3](#) Bioinorganic Chemistry
[CHMD71H3](#) Pharmaceutical Chemistry

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:</i> Andre Simpson (416-287-7547) <i>Email:</i> andre.simpson@utoronto.ca</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</p> <p>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.utsoc.utoronto.ca/subjectpost.</p> <p>Program Requirements</p> <p>The Program requires completion of 14.0 full credits as follows:</p> <p>First Year:</p> <p>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 <i>and</i> 0.5 full credit chosen from: ASTA01H3 Introduction to Astronomy and Astrophysics I: The Sun and Planets ASTA02H3 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets BIOA01H3 Life on Earth: Unifying Principles EESA06H3 Introduction to Planet Earth EESB18H3 Natural Hazards PSCB57H3 Introduction to Scientific Computing STAB22H3 Statistics I</p> <p>Second Year:</p> <p>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:</p> <p>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:</p> <p>PSCD02H3 Current Questions in Mathematics and Science <i>and</i> 0.5 full credit in any C-level or 300-level CHM course not already taken <i>and</i> 2.0 full credits in any D-level or 400-level CHM course including one of</p>	<p><i>Supervisor:</i> Andre Simpson (416-287-7547) <i>Email:</i> andre.simpson@utoronto.ca</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</p> <p>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.utsoc.utoronto.ca/subjectpost.</p> <p>Program Requirements</p> <p>The Program requires completion of 14.0 full credits as follows:</p> <p>First Year:</p> <p>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 <i>and</i> 0.5 full credit chosen from: ASTA01H3 Introduction to Astronomy and Astrophysics I: The Sun and Planets ASTA02H3 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets BIOA01H3 Life on Earth: Unifying Principles EESA06H3 Introduction to Planet Earth EESB18H3 Natural Hazards PSCB57H3 Introduction to Scientific Computing STAB22H3 Statistics I</p> <p>Second Year:</p> <p>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:</p> <p>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:</p> <p>PSCD02H3 Current Questions in Mathematics and Science <i>and</i> 0.5 full credit in any C-level or 300-level CHM course not already taken <i>and</i> 2.0 full credits in any D-level or 400-level CHM course including one of</p>

the following courses:

[CHMD90Y3](#) Directed Research
[CHMD91H3](#) Directed Research
[CHMD92H3](#) Advanced Organic Chemistry Lab Course

the following courses:

[CHMD90Y3](#) Directed Research
[CHMD91H3](#) Directed Research
[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. Dittrich (416-208-2786) *Email:* mdittrich@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: 16.0 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
[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]

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:

[BIOB50H3](#) Ecology
[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC31H3](#) Principles of Glacial Sedimentology and Stratigraphy
[EESC36H3](#) Petrology
[EESC37H3](#) Structural Geology

and

0.5 credit from the following:

[EESC18H3](#) The Great Lakes: An Introduction to Physical Limnology
[EESC19H3](#) Marine Systems

Fourth Year:

1.0 full credit from the following:

[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area
[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment
[EESD09H3](#) Research Project in Environmental Science

Supervisor of Studies: M. Dittrich (416-208-2786) *Email:* mdittrich@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: 16.0 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
[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]

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:

[BIOB50H3](#) Ecology
[EESC03H3](#) Geographic Information Systems and Remote Sensing
[EESC07H3](#) Groundwater
[EESC13H3](#) Environmental Impact Assessment and Auditing
[EESC20H3](#) Geochemistry
[EESC31H3](#) Glacial Geology
[EESC36H3](#) Petrology
[EESC37H3](#) Structural Geology

and

0.5 credit from the following:

[EESC18H3](#) The Great Lakes: An Introduction to Physical Limnology
[EESC19H3](#) Marine Systems

Fourth Year:

1.0 full credit from the following:

[EESC21H3](#) Urban Environmental Problems of the Greater Toronto Area
[EESD02H3](#) Contaminant Hydrogeology
[EESD06H3](#) Climate Change Impact Assessment
[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 Camp I or [EESD07H3](#) Field Camp II

[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

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.utsc.utoronto.ca/~registrar/calendars/calendar?Environmental_Science.html</p> <p><i>Supervisors of Studies:</i> W.A. Gough (416-208-4873) Email: gough@utsc.utoronto.ca and J. Lowman (416 208-4880) Email: lowman@utsc.utoronto.ca</p> <p>Program Requirements Total Requirements: 15.5 full credits</p> <p>First Year (4.0 credits): 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>Second Year (4.5 credits): 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 Two of: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p> <p>Third Year (4.0 credits): PHYB56H3 Introduction to Quantum Physics PHYC11H3 Intermediate Physics Laboratory II PSCB57H3 Introduction to Scientific Computing MATC46H3 Differential Equations II STAB22H3 Statistics I One of: PHYC50H3 Electromagnetic Theory PHYC54H3 Classical Mechanics Two of: CHMB55H3 Environmental Chemistry EESC07H3 Groundwater EESC18H3 The Great Lakes: An Introduction to Physical Limnology EESC19H3 Marine Systems EESC20H3 Geochemistry EESC31H3 Principles of Glacial Sedimentology and Stratigraphy</p> <p>Fourth Year (3.0 credits): PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Nonlinear Systems and Chaos 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*</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.utsc.utoronto.ca/~registrar/calendars/calendar?Environmental_Science.html</p> <p><i>Supervisors of Studies:</i> W.A. Gough (416-208-4873) Email: gough@utsc.utoronto.ca and J. Lowman (416 208-4880) Email: lowman@utsc.utoronto.ca</p> <p>Program Requirements Total Requirements: 15.5 full credits</p> <p>First Year (4.0 credits): 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>Second Year (4.5 credits): 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 Two of: EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History</p> <p>Third Year (4.0 credits): PHYB56H3 Introduction to Quantum Physics PHYC11H3 Intermediate Physics Laboratory II PSCB57H3 Introduction to Scientific Computing MATC46H3 Differential Equations II STAB22H3 Statistics I One of: PHYC50H3 Electromagnetic Theory PHYC54H3 Classical Mechanics 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>Fourth Year (3.0 credits): PHYD37H3 Introduction to Fluid Mechanics PHYD38H3 Nonlinear Systems and Chaos 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*</p>

[EESD13H3](#) Environmental Law and Ethics
[PHYC50H3](#) Electromagnetic Theory
[PHYC54H3](#) Classical Mechanics
[PHYD01H3](#) Physics Research Project*
[PHYD11H3](#) Computational Physics Project*
[PHYD72H3](#) Supervised Reading in Physics*

*no more than two of [EESD10Y3](#), [PHYD01H3](#), [PHYD11H3](#) 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.

[EESD13H3](#) Environmental Law and Ethics
[PHYC50H3](#) Electromagnetic Theory
[PHYC54H3](#) Classical Mechanics
[PHYD01H3](#) Physics Research Project*
[PHYD11H3](#) Computational Physics Project*
[PHYD72H3](#) Supervised Reading in Physics*

*no more than two of [EESD10Y3](#), [PHYD01H3](#), [PHYD11H3](#) 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: 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:</i> Until June 30, 2014: Maria Assif (416-208-2725). After July 1: 2014: TBA.</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 Modernity: Theories and Representations ENGC77H3 The Body in Contemporary Culture: Theories and Representations 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:</i> Until June 30, 2015: A. Maurice (416-287-7180). After July 1: 2015: TBA.</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 ENGC77H3 The Body in Contemporary Culture: Theories and Representations 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>

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	<i>Undergraduate Advisor: 416-287-7184 Email: afs-undergrad-advisor@utsc.utoronto.ca</i>	<i>Undergraduate Advisor: 416-287-7184 Email: afs-undergrad-advisor@utsc.utoronto.ca</i>
Program Requirements	Students must complete four full credits, as follows:	Students must complete four full credits, as follows:
	<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 ENG13H3 Rap Poetics ENG08H3 Topics in African Literature (ENG061H3) 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 Special Topics in Linguistics; Pidgin and Creole Languages FRED12H3 Advanced Topics in Literature: Haitian Migrant Literature in 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 (LGG42H3) Intermediate Modern Standard Arabic I (LGG43H3) Intermediate Modern Standard Arabic II (LGG45H3) 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 	<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 ENG13H3 Rap Poetics ENG08H3 Topics in African Literature (ENG061H3) 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 FRED12H3 Advanced Topics in Literature: Haitian Migrant Literature in 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 (LGG42H3) Intermediate Modern Standard Arabic I (LGG43H3) Intermediate Modern Standard Arabic II (LGG45H3) 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

[WSTC13H3](#) Women, Gender and Islam

Note: Not all courses in Requirement #2 and #3 are offered every year.

Note: Not all courses in Requirement #2 and #3 are offered every year.

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 (Except where substitution of other French credits is permitted for students with special proficiency in the French language) 2.5 credits selected from: <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology FREB45H3 Introduction to Linguistics: French Morphology and Syntax FREC12H3 Semantics: The Study of Meaning FREC45H3 Morphology FREC46H3 Syntax II FREC47H3 Special Topics in Linguistics: Pidgin and Creole Languages FREC48H3 Sociolinguistics of French FRED46H3 Field Methods in Linguistics (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 and the Francophone 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: one full credit in French Canadian literature; one full credit in French literature (FREB50H3, FREB51H3 and FREB55H3 can fulfill this requirement); one-half credit in literature from other parts of the French-speaking world excluding France and Canada, one-half credit of your choice. 1.0 additional credit in French. <p>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.</p>	<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 (Except where substitution of other French credits is permitted for students with special proficiency in the French language) 2.5 credits selected from: <ul style="list-style-type: none"> FREB44H3 Introduction to Linguistics: French Phonetics and Phonology FREB45H3 Introduction to Linguistics: French Morphology and Syntax FREC12H3 Semantics: The Study of Meaning FREC45H3 Morphology FREC46H3 Syntax II FREC47H3 Pidgin and Creole Languages FREC48H3 Sociolinguistics of French FRED46H3 Field Methods in Linguistics (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: one full credit in French Canadian literature; one full credit in French literature (FREB50H3, FREB51H3 and FREB55H3 can fulfill this requirement); one-half credit in literature from other parts of the French-speaking world excluding France and Canada, one-half credit of your choice. 1.0 additional credit in French. <p>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.</p>

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 Senior 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 courses at the university can (with prior written permission from the</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 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 courses at the university can (with prior written permission from the</p>

Program Supervisor) make up any necessary credits with other GAS courses.

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:	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	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/(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 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 Senior 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	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/(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 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.	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	<p><i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 4.0 full 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. For the remaining 3.5 credits, students have two options:</p> <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. <p>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 Senior 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</p>	<p><i>Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete 4.0 full 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. For the remaining 3.5 credits, students have two options:</p> <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. <p>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</p>

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	<p>This program requires the completion of 8.0 credits, as described below.</p> <p>1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>3.5 credits at B-level as follows: STAB22H3 Statistics I 3.0 credits 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</p> <p>2.0 credits at C-level from: ANTC40H3 Methods and Analysis in Anthropological Demography ANTC67H3 Foundations in Epidemiology ANTC68H3 Deconstructing Epidemics HLTC21H3 Patterns of Health, Disease, and Injuries STAC32H3 Applications of Statistical Methods STAC50H3 Data Collection</p> <p>1.0 credit from: GGRB28H3 Geographies of Disease HLTB16H3 Introduction to Public Health HLTC04H3 Methods HLTC22H3 Health, Aging and the Life Cycle HLTC23H3 Issues in Child Health and Development HLTC24H3 Environment and Health</p> <p>0.5 credit from: 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</p>	<p>This program requires the completion of 8.0 credits, as described below.</p> <p>1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>3.5 credits at B-level as follows: STAB22H3 Statistics I 3.0 credits 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</p> <p>2.0 credits at C-level from: ANTC40H3 Methods and Analysis in Anthropological Demography ANTC67H3 Foundations in Epidemiology ANTC68H3 Deconstructing Epidemics HLTC21H3 Patterns of Health, Disease, and Injuries STAC32H3 Applications of Statistical Methods STAC50H3 Data Collection</p> <p>1.0 credit from: 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</p> <p>0.5 credit from: 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</p>

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>1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>3.5 credits at B-level as follows: STAB22H3 Statistics I 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 MGTA06H3 Introduction to Health Management* PHLB09H3 Biomedical Ethics</p> <p>*NOTE: MGTA06H3 has prerequisites that are not part of this program.</p> <p>2.0 credits at C-level from the following: HLTC05H3 Social Determinants of Health 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</p> <p>1.0 credit from: HLTC04H3 Methods HLTC22H3 Health, Aging and the Life Cycle HLTC24H3 Environment and Health HLTC44H3 Comparative Health Policy Systems</p> <p>0.5 credit from: HLTD01H3 Directed Readings in Health Studies HLTD02H3 Health Research Seminar HLTD04H3 Special Topics in Health HLTD05H3 Directed Research on Health Services and Institutions HLTD50H3 Special Topics in Health Humanities</p>	<p>This program requires the completion of 8.0 credits, as described below.</p> <p>1.0 credit at A-level: HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II</p> <p>3.5 credits at B-level as follows: STAB22H3 Statistics I 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 MGTA06H3 Introduction to Health Management* PHLB09H3 Biomedical Ethics</p> <p>*NOTE: MGTA06H3 has prerequisites that are not part of this program.</p> <p>2.0 credits at C-level from the following: HLTC05H3 Social Determinants of Health 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</p> <p>1.0 credit from: HLTC04H3 Critical Qualitative Health Research Methods HLTC22H3 Health, Aging and the Life Cycle HLTC24H3 Environment and Health HLTC44H3 Comparative Health Policy Systems</p> <p>0.5 credit from: HLTD01H3 Directed Readings in Health Studies HLTD02H3 Health Research Seminar HLTD04H3 Special Topics in Health HLTD05H3 Directed Research on Health Services and Institutions HLTD50H3 Special Topics in Health Humanities</p>

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 International Health Policy Analysis 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(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I STAB22H3 Statistics I 0.5 credits in qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies 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(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I STAB22H3 Statistics I 0.5 credits in qualitative methods from the following: ANTB19H3 Ethnography and the Comparative Study of Human Societies 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: 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/(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] 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 International Health Policy Analysis 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/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I 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 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 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: EESC04H3 Biodiversity and Biogeography</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/(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] 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/(ECMB11H3) Quantitative Methods in Economics I GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRB30H3 Fundamentals of GIS I 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 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 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: EESC04H3 Biodiversity and Biogeography</p>

[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](#) Supervised Research in International Development

[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

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 LINC02H3 Phonology II LINC05H3 Morphology 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 LINB20H3 Sociolinguistics LINB60H3 Structure of Chinese LINB62H3 Structure of American Sign Language LINC06H3 Language Change LINC09H3 Phonetic Analysis LINC28H3 Language and Gender LINC47H3 Special Topics in Linguistics: Pidgin and Creole Languages LIND29H3 Seminar in Sociolinguistic Methodologies Group B PLIC15H3 Speech Perception PLIC24H3 First Language Acquisition PLIC25H3 Second Language Acquisition PLIC55H3 Psycholinguistics PLIC65H3 Quantitative Methods in Linguistics PLID34H3 The Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID55H3 Disorders of Speech and Language 3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 ; 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 LINC02H3 Phonology II LINC05H3 Morphology 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 LINB20H3 Sociolinguistics LINB60H3 Structure of Chinese LINB62H3 Structure of American Sign Language LINC06H3 Language Change LINC09H3 Phonetic Analysis LINC28H3 Language and Gender LINC47H3 Pidgin and Creole Languages LIND29H3 Linguistic Research Methodologies Group B PLIC15H3 Speech Perception PLIC24H3 First Language Acquisition PLIC25H3 Second Language Acquisition PLIC55H3 Psycholinguistics PLIC65H3 Quantitative Methods in Linguistics PLID34H3 The Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID55H3 Disorders of Speech and Language 3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 ; 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: 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 who intend to qualify for the Advanced College Diploma from Centennial College must complete a short non-credit course on journalism career management at Centennial.</p> <p>Courses are taught at both U of T Scarborough and at Centennial College (The Centre for Creative Communications 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: MDSA02H3 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.utsc.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.utsc.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: MDSA02H3 History of Media and Technology 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</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.</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: MDSA02H3 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.utsc.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.utsc.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: MDSA02H3 History of Media 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</p>

[ACMA02H3](#) Inquiry and Reasoning in the Humanities

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 [MDSA02H3](#), [JOUA01H3](#), [JOUA02H3](#), [JOURB24H3](#), [JOURB01H3](#), [JOURB02H3](#), [JOURB39H3](#), [ACMA01H3](#), [ACMA02H3](#).]
 *[JOUA06H3](#) Journalism Law and Ethics
 *[JOURB11H3](#) News Reporting
 *[JOURB14H3](#) Journalism Design
 *[JOURB18H3](#) 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.]
 *[JOURB03H3](#) Magazine/Freelance Journalism
 *[JOURB05H3](#) Advanced Interviewing Techniques
 *[JOURB10H3](#) News Laboratory I
 *[JOURB17H3](#) Radio News
 *[JOURB20H3](#) 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.]
 *[JOURC13H3](#) Beat Reporting
 *[JOURC16Y3](#) News Laboratory II
 *[JOURC17H3](#) Television News

8. *[JOURC25H3](#) Field Placement
 [Note: students will be eligible to enrol in this course after successfully completing Journalism Group III above.]

9. [JOURD10H3](#) 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 [three-week](#) Career Management course is required to qualify for the Advanced College Diploma from Centennial College.

[ACMA02H3](#) Inquiry and Reasoning in the Humanities

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 [MDSA02H3](#), [JOUA01H3](#), [JOUA02H3](#), [JOURB24H3](#), [JOURB01H3](#), [JOURB02H3](#), [JOURB39H3](#), [ACMA01H3](#), [ACMA02H3](#).]
 *[JOUA06H3](#) Journalism Law and Ethics
 *[JOURB11H3](#) News Reporting
 *[JOURB14H3](#) Journalism Design
 *[JOURB18H3](#) 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.]
 *[JOURB03H3](#) Magazine/Freelance Journalism
 *[JOURB05H3](#) Advanced Interviewing Techniques
 *[JOURB10H3](#) News Laboratory I
 *[JOURB17H3](#) Radio News
 *[JOURB20H3](#) 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.]
 *[JOURC13H3](#) Beat Reporting
 *[JOURC16Y3](#) News Laboratory II
 *[JOURC17H3](#) Television News

8. *[JOURC25H3](#) Field Placement
 [Note: students will be eligible to enrol in this course after successfully completing Journalism Group III above.]

9. [JOURD10H3](#) 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.

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:</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) 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) 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) 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) 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) 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 and Technology MDSB05H3 Media and Globalization MDSB61H3 Mapping New Media MDSB62H3 Visual Culture</p>	<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) 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) 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) 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) 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) 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: 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 and Technology</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 MDSB63H3 Sound and Visual Media</p> <p>4. 1.0 credit: MDSC01H3 Theories and Methods in Media Studies MDSC02H3 Topics in Media, Identities and Politics</p> <p>5. 0.5 credit from the following: MDSD01H3 Senior Seminar: Topics in Media and Arts MDSD02H3 Senior Seminar: Topics in Media and Society</p> <p>6. 3.5 credits from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB05H3 Media and Globalization (if not used above) MDSB25H3 Political Economy of Media (if not used above) MDSB61H3 Mapping New Media (if not used above) MDSB62H3 Visual Culture (if not used above) MDSC40H3 Chinese Media and Politics MDSC41H3 Media and Popular Culture in East and Southeast Asia MDSC53H3 Anthropology of Media and Publics MDSC62H3 Media and the World of Work MDSC63H3 Media Ethics MDSC64H3 Old Media, New Media: Film and Technology MDSC65H3 Online Gaming and Virtual Worlds MDSD01H3 Senior Seminar: Topics in Media and Arts (if not used above) MDSD02H3 Senior Seminar: Topics in Media and Society (if not used above)</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><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: MDSC01H3 Theories in Media Studies MDSC02H3 Media, Identities and Politics</p> <p>5. 0.5 credit from the following: MDSD01H3 Senior Seminar: Topics in Media and Arts MDSD02H3 Senior Seminar: Topics in Media and Society</p> <p>6. 3.5 credits from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB05H3 Media and Globalization (if not used above) MDSB25H3 Political Economy of Media (if not used above) MDSB61H3 Mapping New Media (if not used above) MDSB62H3 Visual Culture and Communication (if not used above) MDSC40H3 Chinese Media and Politics MDSC41H3 Media and Popular Culture in East and Southeast Asia MDSC53H3 Anthropology of Media and Publics MDSC62H3 Media and the World of Work MDSC63H3 Media Ethics MDSC64H3 Film and Technology MDSC65H3 Online Gaming and Virtual Worlds MDSD01H3 Senior Seminar: Topics in Media and Arts (if not used above) MDSD02H3 Senior Seminar: Topics in Media and Society (if not used above)</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>

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 and Technology MDSB05H3 Media and Globalization</p> <p>3. 1.0 credit from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and the Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB25H3 Political Economy of Media MDSB61H3 Mapping New Media MDSB62H3 Visual Culture MDSB63H3 Sound and Visual Media</p> <p>4. 1.0 credit from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and the Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB25H3 Political Economy of Media MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>5. 0.5 credit from the following: PSCA01H3 Communicating Science: Film, Media, Journalism, and Society ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II HISB12H3 The Classical World in Film VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts VPMB97H3 Film Music WSTB13H3 Gender, Media and Culture ENGC56H3 Literature and Media: From Page to Screen HISC08H3 Colonialism on Film SOCC44H3 Media and Society VPMC97H3 Music, Technologies, Media WSTC16H3 Criminal Women: Gender, Justice and the Media WSTC22H3 Women and Film</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: 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. 1.0 credit from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and the Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB25H3 Political Economy of Media MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>4. 1.0 credit from the following: MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and the Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB25H3 Political Economy of Media MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication MDSB63H3 Sound and Visual Media</p> <p>5. 0.5 credit from the following: PSCA01H3 Communicating Science: Film, Media, Journalism, and Society ENGB70H3 Introduction to Cinema ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II HISB12H3 The Classical World in Film VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts VPMB97H3 Film Music WSTB13H3 Gender, Media and Culture ENGC56H3 Literature and Media: From Page to Screen HISC08H3 Colonialism on Film SOCC44H3 Media and Society VPMC97H3 Music, Technologies, Media WSTC16H3 Criminal Women: Gender, Justice and the Media WSTC22H3 Women and Film</p>

Program notes/tables

Program: SCSPEPLINC - Compare

Code	SCSPEPLINC	SCSPEPLINC
Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	Linguistics	Linguistics
Title	SPECIALIST PROGRAM IN PSYCHOLINGUISTICS (ARTS)	SPECIALIST PROGRAM IN PSYCHOLINGUISTICS (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 12.5 credits, including 4.0 credits at the C- and D-levels of which 1.0 credit must be at the D-level as follows:	Students must complete 12.5 credits, including 4.0 credits at the C- and D-levels of which 1.0 credit must be at the D-level as follows:
	<ol style="list-style-type: none"> LINA01H3 Introduction to Linguistics LINA02H3 Applications of Linguistics PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II LINB04H3 Phonology I LINB06H3 Syntax I LINB09H3 Phonetics: The Study of Speech Sounds PLIC24H3 First Language Acquisition PLIC55H3 Psycholinguistics PLIC65H3 Quantitative Methods in Linguistics 1.5 credits from the following courses: <ul style="list-style-type: none"> LINB20H3 Sociolinguistics LINC02H3 Phonology II LINC05H3 Morphology LINC11H3 Syntax II LINC12H3 Semantics: The Study of Meaning 2.5 credits from the following courses: <ul style="list-style-type: none"> LINB62H3 Structure of American Sign Language LINC09H3 Phonetic Analysis PLIC15H3 Speech Perception PLIC25H3 Second Language Acquisition PLID34H3 Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID55H3 Disorders of Speech and Language 1.5 credits from the following courses: <ul style="list-style-type: none"> PLIC54H3 Speech Pathology and Speech Disorders in Children and Adults PLID56H3 Special Topics in Language Disorders in Children PSYB20H3 Introduction to Developmental Psychology PSYB51H3 Perception and Cognition or PSYB57H3 Memory and Cognition] PSYB65H3 Human Brain and Behaviour PSYC21H3 Advanced Developmental Psychology 2.0 further credits in LIN and/or PLI 	<ol style="list-style-type: none"> LINA01H3 Introduction to Linguistics LINA02H3 Applications of Linguistics PSYA01H3 Introductory Psychology: Part I PSYA02H3 Introductory Psychology: Part II LINB04H3 Phonology I LINB06H3 Syntax I LINB09H3 Phonetics: The Study of Speech Sounds PLIC24H3 First Language Acquisition PLIC55H3 Psycholinguistics PLIC65H3 Quantitative Methods in Linguistics 1.5 credits from the following courses: <ul style="list-style-type: none"> LINB20H3 Sociolinguistics LINC02H3 Phonology II LINC05H3 Morphology LINC11H3 Syntax II LINC12H3 Semantics: The Study of Meaning 2.5 credits from the following courses: <ul style="list-style-type: none"> LINB62H3 Structure of American Sign Language LINC09H3 Phonetic Analysis PLIC15H3 Speech Perception PLIC25H3 Second Language Acquisition PLID34H3 Psycholinguistics of Reading PLID44H3 Acquisition of the Mental Lexicon PLID55H3 Disorders of Speech and Language 1.5 credits from the following courses: <ul style="list-style-type: none"> PLIC54H3 Speech Physiology and Speech Disorders in Children and Adults PLID56H3 Special Topics in Language Disorders in Children PSYB20H3 Introduction to Developmental Psychology PSYB51H3 Perception and Cognition or PSYB57H3 Memory and Cognition] PSYB65H3 Human Brain and Behaviour PSYC21H3 Advanced Developmental Psychology 2.0 further credits in LIN and/or PLI

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 0.5 full credit chosen from: ANTB01H3 Political Ecology GGRA03H3 Cities and Environments POLA51H3 Critical Issues of Canadian Democracy (POLA83H3) Exploring Globalization (POLB50H3) Canada's Political Institutions POLB80H3 Introduction to International Relations 0.5 full 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 (3.5 credits) GGRB21H3 Environments and Environmentalisms IDSB02H3 Development and Environment STAB22H3 Statistics I 2.0 full 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 GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development (HLTA01H3) Plagues and People POLC53H3 Canadian Environmental Policy POLD89H3 Global Environmental Politics</p> <p>3. Capstone & Applications (2.5 credits) ESTC34H3 Sustainability in Practice ESTD16H3 Project Management in Environmental Studies ESTD17Y3 Cohort Capstone Course in Environmental Studies ESTD18H3 Environmental Studies Seminar Series</p>	<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 0.5 full credit chosen from: ANTB01H3 Political Ecology GGRA03H3 Cities and Environments POLA51H3 Critical Issues of Canadian Democracy (POLA83H3) Exploring Globalization (POLB50H3) Canada's Political Institutions POLB80H3 Introduction to International Relations 0.5 full 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 (3.5 credits) GGRB21H3 Environments and Environmentalisms IDSB02H3 Development and Environment STAB22H3 Statistics I 2.0 full 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 GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning GGRC22H3 Political Ecology Theory and Applications GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development (HLTA01H3) Plagues and People POLC53H3 Canadian Environmental Policy POLD89H3 Global Environmental Politics</p> <p>3. Capstone & Applications (2.5 credits) ESTC34H3 Sustainability in Practice ESTD16H3 Project Management in Environmental Studies ESTD17Y3 Cohort Capstone Course in Environmental Studies ESTD18H3 Environmental Studies Seminar Series</p>

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	<p><i>Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca</i></p> <p>Program Requirements: Students must complete 8.0 full credits as follows:</p> <ol style="list-style-type: none"> ACMA01H3 Exploring Key Questions in Humanities VPDA10H3 Introduction to Theatre VPDA11H3 Introduction to Performance VPDB01H3 Intermediate Workshop in Performance I VPDB02H3 Intermediate Workshop in Performance II VPDB04H3 Experiencing the Live Theatre VPDB15H3 The Actor and the Script 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 VPDC20H3 Special Topics in Performance VPDD50H3 Advanced Seminar in Theatre and Performance 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 Introduction to 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 	<p><i>Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca</i></p> <p>Program Requirements: Students must complete 8.0 full credits as follows:</p> <ol style="list-style-type: none"> ACMA01H3 Exploring Key Questions in Humanities VPDA10H3 Introduction to Theatre VPDA11H3 Introduction to Performance VPDB01H3 Intermediate Workshop in Performance I VPDB02H3 Intermediate Workshop in Performance II VPDB04H3 Experiencing the Live Theatre VPDB15H3 The Actor and the Script 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 VPDC20H3 Special Topics in Performance VPDD50H3 Advanced Seminar in Theatre and Performance 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

Program notes/tables

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. 2.0 full credits:</p> <p>MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media and Technology MDSB61H3 Mapping New Media MDSB62H3 Visual Culture</p> <p>2. 1.0 additional full credit from the following:</p> <p>MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB05H3 Media and Globalization MDSB25H3 Political Economy of Media MDSB63H3 Sound and Visual Media MDSC01H3 Theories and Methods in Media Studies MDSC02H3 Topics in Media, Identities and Politics MDSC40H3 Chinese Media and Politics MDSC41H3 Media and Popular Culture in East and Southeast Asia MDSC53H3 Anthropology of Media and Publics MDSC62H3 Media and the World of Work MDSC63H3 Media Ethics MDSC64H3 Old Media, New Media: Film and Technology MDSC65H3 Online Gaming and Virtual Worlds MDS01H3 Senior Seminar: Topics in Media and Arts MDS02H3 Senior Seminar: Topics in Media and Society</p> <p>3. 0.5 credit from the following:</p> <p>CSCA08H3 Introduction to Computer Science I CSCA20H3 Computer Science for the Sciences ENGB70H3 Introduction to Cinema ENGC56H3 Literature and Media: From Page to Screen SOCC44H3 Media and Society VPAA06H3 Visual and Performing Arts Management in the Digital Age VPMC97H3 Music, Technologies, Media VPSA62H3 Foundation Studies in Studio VPSA73H3 Video I VPSA74H3 Foundations in Digital Studio Practice VPSB67H3 Photo I VPSB72H3 Digital Publishing VPSB75H3 Photo II VPSB76H3 Video II VPSB80H3 Digital Studio Projects VPSB88H3 Introduction to Sound Art VPSB89H3 Introduction to Digital Animation VPSC52H3 Documentary Video VPSC89H3 Digital Animation 2 VPSC70H3 Theory and Practice: New Media in Studio WSTB13H3 Gender, Media and Culture</p> <p>4. 4.5 full credits from Centennial College: New Media Group 1. Students will be eligible to enrol in New Media Group 1 courses after completing any 10 full credits including 2 full credits from category 1 and 0.5 credits from category 1 or 2. NMEA01H3 Digital Fundamentals NMEA02H3 Introduction to New Media Communications NMEA03H3 The Language of Design NMEA04H3 Interface Design, Navigation and Interaction I</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. 2.0 full credits:</p> <p>MDSA01H3 Introduction to Media Studies MDSA02H3 History of Media MDSB61H3 Mapping New Media MDSB62H3 Visual Culture and Communication</p> <p>2. 1.0 additional full credit from the following:</p> <p>MDSB01H3 Human, Animal, Machine MDSB02H3 Anthropology of Language and Media: An Introduction MDSB03H3 Advertising and Consumer Culture MDSB05H3 Media and Globalization MDSB25H3 Political Economy of Media MDSB63H3 Sound and Visual Media MDSC01H3 Theories in Media Studies MDSC02H3 Media, Identities and Politics MDSC40H3 Chinese Media and Politics MDSC41H3 Media and Popular Culture in East and Southeast Asia MDSC53H3 Anthropology of Media and Publics MDSC62H3 Media and the World of Work MDSC63H3 Media Ethics MDSC64H3 Film and Technology MDSC65H3 Online Gaming and Virtual Worlds MDS01H3 Senior Seminar: Topics in Media and Arts MDS02H3 Senior Seminar: Topics in Media and Society</p> <p>3. 0.5 credit from the following:</p> <p>CSCA08H3 Introduction to Computer Science I CSCA20H3 Computer Science for the Sciences ENGB70H3 Introduction to Cinema ENGC56H3 Literature and Media: From Page to Screen SOCC44H3 Media and Society VPAA06H3 Visual and Performing Arts Management in the Digital Age VPMC97H3 Music, Technologies, Media VPSA62H3 Foundation Studies in Studio VPSA73H3 Video I VPSA74H3 Digital Studio VPSB67H3 Photo I VPSB72H3 Digital Publishing VPSB75H3 Photo II VPSB76H3 Video II VPSB80H3 Digital Studio VPSB88H3 Sound Art VPSB89H3 Digital Animation VPSC52H3 Documentary Video VPSC89H3 Digital Animation VPSC70H3 Theory and Practice: New Media in Studio WSTB13H3 Gender, Media and Culture</p> <p>4. 4.5 full credits from Centennial College: New Media Group 1. Students will be eligible to enrol in New Media Group 1 courses after completing any 10 full credits including 2 full credits from category 1 and 0.5 credits from category 1 or 2. NMEA01H3 Digital Fundamentals NMEA02H3 Introduction to New Media Communications NMEA03H3 The Language of Design NMEA04H3 Interface Design, Navigation and Interaction I</p>

New Media Group 2.

Students will be eligible to enrol in these courses after successfully completing all courses in New Media Group 1.

- [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

5. 1.0 full credit:

- [NMED01H3](#) New Media Senior Project
- [NMED20H3](#) Theory and Practice of New Media

Note: [NMED01H3](#) and [NMED20H3](#) are taught at UTSC. All other NME courses are taught at Centennial College.

New Media Group 2.

Students will be eligible to enrol in these courses after successfully completing all courses in New Media Group 1.

- [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

5. 1.0 full credit:

- [NMED01H3](#) New Media Senior Project
- [NMED20H3](#) Theory and Practice of New Media

Note: [NMED01H3](#) and [NMED20H3](#) are taught at UTSC. All other NME courses are taught at Centennial College.

Program notes/tables

Program: SCMAJ0571 - Compare

Code SCMAJ0571
Owning Organizations WST,HCSSC
Sections Women's and Gender Studies
Title MAJOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)
ROSI Title Same as Calendar Title
Description

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](#) Methods of Research and Inquiry 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 from the list below of which at least 1.0 must be at the C- or D-level. (Students should check course descriptions for prerequisites.)
Note: Not all courses in #7 are offered every year. Check the website: <http://www.uts.utoronto.ca/~hcs/programs/women-gender-studies.html>. Courses have been organized into three thematic clusters to assist students in planning - there is no program requirement related to the clusters.

Cluster #1: Health, Sexualities, and the Gendered Body

- [ANTC15H3](#) Genders and Sexualities
- [ANTD01H3](#) The Body in Culture and Society
- [ENGC76H3](#) (VPAC47H3) The Body in Modernity: Theories and Representations
- [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

Cluster #2: Representations and Constructions of Women and Gender

- [ENGB50H3](#) Women and Literature: Forging a Tradition
- [ENGB51H3](#) Gender and Genre
- [ENGC34H3](#) Early Modern Women and Literature: 1500-1700
- [ENGC51H3](#) Contemporary Arab Women Writers
- [ENGD80H3](#) Women and Canadian Writing
- [LINC28H3](#) Language and Gender
- [PHLB13H3](#) Philosophy and Feminism
- [PSYD18H3](#) Psychology of Gender
- [SOCC22H3](#) Sociology of Gender
- [VPHB57H3](#) Women in the Arts: Hot Mamas, Amazons, and Madonnas
- [WSTB13H3](#) Gender, Media and Culture
- [WSTC12H3](#) Writing the Self: Global Women's Autobiographies
- [WSTC16H3](#) Criminal Women: Gender, Justice and the Media
- [WSTC22H3](#) Women and Film

Cluster #3: Gender, Equity, and Human Rights

- [GASB20H3](#) Gender and Social Institutions in Asia
- [MGHC23H3](#) (MGTC23H3) Diversity in the Workplace
- [POLC94H3](#) Globalization, Gender and Development
- [SOCC09H3](#) Sociology of Gender and Work

SCMAJ0571
 WST,HCSSC
 Women's and Gender Studies
 MAJOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)
 Same as Calendar Title

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 Gender and Genre ENGC34H3 Early Modern Women and Literature: 1500-1700 ENGC51H3 Contemporary Arab	ANTC14H3 Feminism and Anthropology GASB20H3 Gendering Global Asia GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies

[SOCC38H3](#) Gender and Education
[WSTB10H3](#) Women, Power and Protest
[WSTC14H3](#) Women, Community and Policy Change

Cluster #4: Gender, Local and Global Communities, and Diaspora

[ANTC14H3](#) Feminism and Anthropology
[GASC20H3](#) Gendering Global Asia
[GASD20H3](#) Senior Seminar: Social Change and Gender Relations in Chinese Societies
[GGRD09H3](#) Feminist Geographies
[HISC45H3](#) Immigrant and Race Relations in Canadian History
[HISD30H3](#) Gendering America
[HISD46H3](#) Selected Topics in Canadian Women's History
[HISD56H3](#) 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
[SOCB49H3](#) Sociology of Family
[SOCC24H3](#) Sociology of Gender and Families
[SOCC29H3](#) Special Topics in Sociology of Family
[WSTC10H3](#) Women and Development
[WSTC11H3](#) Applied Studies in Women and Development
[WSTC13H3](#) Women, Gender and Islam
[WSTC19H3](#) Gender in East Asian Science and Technology
[WSTC20H3](#) Women and Environments
[WSTC21H3](#) Gender, Health, Science in Transnational Perspective

Note: Not all courses in Requirement #6 or #7 are offered every year.

Women Writers
[ENGD80H3](#) Women and Canadian Writing
[LINC28H3](#) Language and Gender
[PHLB13H3](#) Philosophy and Feminism
[PSYD18H3](#) Psychology of Gender
[SOCB22H3](#) Sociology of Gender
[VPHB57H3](#) Women in the Arts: Hot Mamas, Amazons, and Madonnas
[WSTB13H3](#) Gender, Media and Culture
[WSTC12H3](#) Writing the Self: Global Women's Autobiographies
[WSTC16H3](#) Criminal Women: Gender, Justice and the Media
[WSTC22H3](#) Women and Film

[GGRD09H3](#) Feminist Geographies
[HISC45H3](#) Immigrant and Race Relations in Canadian History
[HISD30H3](#) Gendering America
[HISD46H3](#) Selected Topics in Canadian Women's History
[HISD56H3](#) 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
[SOCB49H3](#) Sociology of Family
[SOCC24H3](#) Sociology of Gender and Families
[SOCC29H3](#) Special Topics in Sociology of Family
[WSTC10H3](#) Women and Development
[WSTC11H3](#) Applied Studies in Women and Development
[WSTC13H3](#) Women, Gender and Islam
[WSTC19H3](#) Gender in East Asian Science and Technology
[WSTC20H3](#) Women and Environments
[WSTC21H3](#) Gender, Health, Science in Transnational Perspective

Program notes/tables

Program: SCMIN0571 - Compare

Code	SCMIN0571	SCMIN0571
Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	Women's and Gender Studies	Women's and Gender Studies
Title	MINOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)	MINOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)
ROSI Title	Same as Calendar Title	Same as Calendar Title
Description	<p><i>Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete four full credits as follows:</p> <ol style="list-style-type: none"> WSTA01H3 Introduction to Women's and Gender Studies <i>and</i> WSTA03H3 Introduction to Theories of Feminism WSTB05H3 Methods of Research and Inquiry in Women's and Gender Studies WSTB11H3 Intersections of Inequality Two further credits in Women's and Gender Studies at the B, C, or D-level and/or from the list of courses in requirement #7 of the Major Program; at least one of these credits must be at the C or D-level. 	<p><i>Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca</i></p> <p>Program Requirements Students must complete four full credits as follows:</p> <ol style="list-style-type: none"> WSTA01H3 Introduction to Women's and Gender Studies <i>and</i> WSTA03H3 Introduction to Theories of Feminism WSTB05H3 Approaches to Research in Women's and Gender Studies WSTB11H3 Intersections of Inequality Two further credits in Women's and Gender Studies at the B, C, or D-level and/or from the list of courses in requirement #7 of the Major Program; at least one of these credits must be at the C or D-level.

Program notes/tables

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Editor - Annette Knott, University of Toronto Scarborough 2015-2016 (Unlocked) | [Logout](#)

Report produced: January 21, 2015



Total 149 courses - Compare

The initial and current values are shown

	Initial Value	Current Value
Course: AFSC30H3 - Compare		
Owning Organizations	AFS,HCSSC	AFS,HCSSC
Sections	2015 - African Studies	2015 - African Studies
Calendar Title	Language and Society in the Arab World	Language and Society in the Arab World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of the relationship between language, society and identity in the Arab world, with special emphasis on North Africa. Topics include: colonial and postcolonial periods; the role of Arabic in pan-Arab identity; multilingualism, class and education; ideologies of gender and language; and ethno-linguistic revitalization among Berbers in North Africa.	An examination of the relationship between language, society and identity in the Arab world, with special emphasis on North Africa. Topics include: colonial and postcolonial periods; the role of Arabic in pan-Arab identity; multilingualism, class and education; ideologies of gender and language; and ethno-linguistic revitalization among Berbers in North Africa.
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 B-level course in African Studies, Linguistics, History, or Women and Gender Studies	Any B-level course in African Studies, Linguistics, History, or Women's and Gender Studies
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	50	50
Note		
Instructor Hours		
Available Online	No	No

Course: ANTC09H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2015 - Anthropology	2015 - Anthropology
Calendar Title	Families: Kinship and Marriage from a Cross-Cultural Perspective	Sex, Love, and Intimacy: Anthropological Approaches to Kinship and Marriage
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores Anthropological approaches to kinship and family arrangements. In addition to examining the range of forms that family arrangements can take cross-culturally, we also examine how kinship configurations have changed within our own society in recent years. Topics to be covered include trans-national adoption, "mail-order-brides", new reproductive technologies and internet dating.	This course explores Anthropological approaches to kinship and family arrangements. In addition to examining the range of forms that family arrangements can take cross-culturally, we also examine how kinship configurations have changed within our own society in recent years. Topics to be covered include trans-national adoption, "mail-order-brides", new reproductive technologies and internet dating.
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	ANTA02H3 and ANTB19H3 and ANTB20H3	ANTA02H3 and ANTB19H3 and ANTB20H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: ANTD99H3 - Compare

Owning Organizations	ANT,ANTSC	ANT,ANTSC
Sections	2015 - Anthropology	2015 - Anthropology
Calendar Title	Advanced Topics in Primate Evolution	Advanced Topics in Primate Evolution
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will examine questions of particular controversy in the study of Primate Evolution. Topics to be covered may include the ecological context of primate origins, species recognition in the fossil record, the identification of the first anthropoids, and the causes of extinction of the subfossil lemurs.	This course will examine questions of particular controversy in the study of Primate Evolution. Topics to be covered may include the ecological context of primate origins, species recognition in the fossil record, the identification of the first anthropoids, and the causes of extinction of the subfossil lemurs. Science credit
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	ANTB14H3 and at least one C-level course (1.0 credit) in biological anthropology.	ANTB14H3 and at least one C-level course (1.0 credit) in biological anthropology.
Corequisite		
Exclusion	ANTD13H3 if completed in the 2010/2011 academic year	ANTD13H3 if completed in the 2010/2011 academic year
Recommended Preparation	ANTC99H3	ANTC99H3
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: BIOB12H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - 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. Six 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, (BGYB12H3)
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		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: BIOB34H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - Biological Sciences
Calendar Title	Animal Physiology	Animal Physiology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A comparative animal physiology course covering regulatory and control mechanisms such as: homeostasis; metabolism and energetics; excretion and osmoregulation; feeding and digestion; muscles and locomotion; nervous systems.	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	None	None
Learning Nature		
Prerequisite	BIOA01H3 & BIOA02H3	BIOA01H3 & BIOA02H3
Corequisite		
Exclusion	(BIOB30H3),(BGYB30H3), BIO270H, BIO204H	(BIOB30H3),(BGYB30H3), BIO270H, BIO204H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC37H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - Biological Sciences
Calendar Title	Plants: Life on the Edge	Plants: Life on the Edge
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Plants have evolved adaptations to maximize growth, survival and reproduction under various environmental conditions. This course will study the great diversity of plant structure and function in relation to ecology, focusing mainly on the anatomy of flowering plants.	Plants have evolved adaptations to maximize growth, survival and reproduction under various taxing environmental conditions. This course will study the great diversity of plant structures and function in relation to ecology, focusing mainly on the anatomy of flowering plants.
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	BIOB38H3 or BIOB50H3 or BIOB51H3	BIOB38H3 or BIOB50H3 or BIOB51H3
Corequisite		
Exclusion	EEB340H	EEB340H
Recommended Preparation		
Enrolment Limits	48	48
Note		
Instructor Hours		
Available Online	No	No

Course: BIOC99H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - Biological Sciences
Calendar Title	Biology Team Research	Biology Team Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is meant to provide an introduction to academic research. A group of 3-5 students work together to develop a research proposal and/or implement a research project under the general guidance of a faculty researcher. Students meet regularly with a graduate student and attend several skill development sessions. Components of assessment are determined prior to project commencement, but may be based on student contribution over the term and a final written product.	In this introduction to academic research, a group of 3-5 students work with a faculty supervisor and TA to develop a research proposal or implement a research project. Prior to registering, students must find a faculty supervisor, form a group, then submit a permission form to the department. The application form may be downloaded from the website:
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other		
Learning Nature		
Prerequisite	(1) Enrolment in a UTSC major or specialist Subject POST offered by Biological Sciences & (2) have completed all second year core program requirements & (3) have at least 10 full credits & (4) a cumulative GPA of at least 3.0 (5) acceptance of the application by a faculty member. The application form may be downloaded from the website, http://www.utsc.utoronto.ca/~biosci/researchOpp	(1) Enrolment in a UTSC major or specialist Subject POST offered by Biological Sciences & (2) completion of all second year core program requirements & (3) have at least 10 full credits & (4) a cumulative GPA of at least 3.0 & (5) a commitment from a Biology faculty member to serve as supervisor & (6) formation of a group that includes at least 2 other students.
Corequisite Exclusion		

**Recommended
Preparation
Enrolment
Limits
Note**

<http://www.utsoc.utoronto.ca/biosci/resources-current-students>

Instructor

Hours

Available No

No

Online

Course: BIOD62H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - Biological Sciences
Calendar Title	Species and Speciation	Species and Speciation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Importance of species as the basic unit of evolution and different species concepts. Origin of species: processes of speciation (allopatric, sympatric; chromosomal speciation; speciation through sexual selection); pre-zygotic (habitat/temporal/pollinator /behavioural isolation) vs. post-zygotic speciation (extrinsic and intrinsic post-zygotic isolation); adaptive radiation; different rates of speciation. Flipside of speciation: extinction.	A species is the basic unit of evolution and this course will focus on the process of how species evolve and what keeps established species apart. This course will thus provide the student with a deeper understanding of how Earth's biodiversity evolved and is maintained under natural conditions.
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	EEB340H	EEB340H
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: BIOD67H3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - 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. Additional information is provided on the Department of Biological Sciences website http://www.utsc.utoronto.ca/~biosci/researchOpp.html	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. Additional information is provided on the Department of Biological Sciences website http://www.utsc.utoronto.ca/~biosci/researchOpp.html
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), (BGYC67H3)
Recommended Preparation		
Enrolment Limits		
Note		Additional information is provided on the Department of Biological Sciences website http://www.utsc.utoronto.ca/~biosci/researchOpp.html and on the OUPFB website http://www.oupfb.ca/index.html
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: BIOD96Y3 - Compare

Owning Organizations	BGYSC,BIO	BGYSC,BIO
Sections	2015 - Biological Sciences	2015 - Biological Sciences
Calendar Title	Directed Research in Paramedicine	Directed Research in Paramedicine
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course is designed to permit intensive examination of clinical databases or published literature/reports related to emergency medicine or paramedicine. Students will analyse data from these sources to address a fundamental question or concern related to patient treatment and/or outcomes from the point-of-view of "best practice" procedures in emergency medicine or paramedicine. A quantitative or statistical analysis of the problem is expected. In addition to examining the question or concern from a clinical treatment perspective, students are expected to gain an appropriate level of understanding of the physiology, anatomy, pharmacology and epidemiology underlying the question that they are addressing. The project will culminate in a written report and possibly an oral presentation. Students will work under the supervision of an emergency medicine/paramedicine practitioner/professional/researcher who will guide the research. Students must also report to a UTSC faculty member who will serve as a co-supervisor. In order to enrol in this course students must seek an individual who will supervise the research and then obtain permission from the course instructor.</p>	<p>This course is designed to permit critical analysis of current topics relevant to the broad topic of paramedicine. Students will work independently but under the supervision of an industry leader, practitioner and/or researcher involved in paramedicine, who will guide the in-depth study/research. Students must also report to the course instructor and paramedicine program supervisor. Students must obtain a permission form from SW420B. At that time the student will be provided with an outline of the general schedule and general requirements for the course. Students are required to meet with the course instructor and program supervisor for complete course information and to complete their formal registration.</p>
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning -	None	None

Other

Learning

Nature

Prerequisite	Minimum of 15.0 credits including PMDC54Y3 & PMDC56H3 & [PSYB07H3 or STAB22H3] & PSYC08H3 or permission of instructor.	Minimum of 15.0 credits including PMDC54Y3 & PMDC56H3 & [PSYB07H3 or STAB22H3] & PSYC08H3 or permission of instructor.
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Corequisite

Exclusion

Recommended

Preparation

Enrolment

Limits

Note

Instructor

Hours

Available	No	No
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Online

Course: CHMD92H3 - Compare

Owning Organizations	CHM,PHSSC	CHM,PHSSC
Sections	2015 - Chemistry	2015 - Chemistry
Calendar Title	Advanced Organic Chemistry Laboratory Course	Advanced Chemistry Laboratory Course
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A lab course designed to introduce students to modern synthetic methods while performing multi-step syntheses. The course will consist of two, six hour lab days every week. Students will develop practical skills by working with important reactions taken from pharmaceutical chemistry and the chemistry of naturally occurring substances.	A lab course designed to introduce students to modern synthetic methods while performing multi-step syntheses. The course will consist of two, six hour lab days every week. Students will develop advanced synthetic and analytic skills by working with important reactions taken from different chemistry disciplines.
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	One of CHMC41H3 , CHMC42H3 or CHMC31Y3	One of CHMC41H3 , CHMC42H3 or CHMC31Y3
Corequisite		
Exclusion	CHMD90Y3 , CHMD91H3	CHMD90Y3 , CHMD91H3
Recommended Preparation		
Enrolment Limits	10	10
Note		
Instructor Hours		
Available Online	No	No

Course: CSCA67H3 - Compare

Owning Organizations	CSC, MSCSC	CSC, MSCSC
Sections	2015 - Computer Science	2015 - Computer Science
Calendar Title	Discrete Mathematics for Computer Scientists	Discrete Mathematics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Introduction to discrete mathematics: Elementary combinatorics; discrete probability including conditional probability and independence; graph theory including trees, planar graphs, searches and traversals, colouring. The course emphasizes topics of relevance to computer science, and exercises problem-solving skills and proof techniques such as well ordering, induction, contradiction, and counterexample.	Introduction to discrete mathematics: Elementary combinatorics; discrete probability including conditional probability and independence; graph theory including trees, planar graphs, searches and traversals, colouring. The course emphasizes topics of relevance to computer science, and exercises problem-solving skills and proof techniques such as well ordering, induction, contradiction, and counterexample.
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
Prerequisite	Grade 12 Calculus and Vectors & one other Grade 12 mathematics course	Grade 12 Calculus and Vectors & one other Grade 12 mathematics course
Corequisite		
Exclusion	(CSCA65H3), CSC165H, CSC240H, MAT102H	(CSCA65H3), CSC165H, CSC240H, MAT102H
Recommended Preparation	CSCA08H3 or CSCA20H3	CSCA08H3 or CSCA20H3
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: EESC16H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2015 - Environmental Science	2015 - Environmental Science
Calendar Title	Field Camp	Field Methods
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	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.	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.
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	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: EESC31H3 - Compare

Owning Organizations	EES,PHSSC	EES,PHSSC
Sections	2015 - Environmental Science	2015 - Environmental Science
Calendar Title	Principles of Glacial Sedimentology and Stratigraphy	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 landscape of Ontario is a fossil landscape inherited from the last Laurentide Ice Sheet that disappeared only 10,000 years ago; much of southern Ontario is buried by glacial sediments and the Great Lakes are the direct result of glaciation. The course will review the cause of glaciations and their geological and geomorphological effects paying special regard to the long record of past glacial and interglacial climates preserved in the Toronto region.	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.
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	EESA06H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: ENGB37H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	Selling Pleasure: Popular Literature and Mass Culture	Popular Literature and Mass Culture
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course considers the creation, marketing, and consumption of popular film and fiction. Genres studied might include bestsellers; detective fiction; mysteries, romance, and horror; fantasy and science fiction; "chick lit"; popular song; pulp fiction and fanzines.	This course considers the creation, marketing, and consumption of popular film and fiction. Genres studied might include bestsellers; detective fiction; mysteries, romance, and horror; fantasy and science fiction; "chick lit"; popular song; pulp fiction and fanzines.
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		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: ENGB61H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	Creative Writing: Fiction I	Creative Writing: Fiction I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the writing of fiction. This course will provide an introduction to the writing of short fiction through workshop sessions. Admission by portfolio.	An introduction to the writing of fiction. This course will provide an introduction to the writing of short fiction through workshop sessions. Admission by portfolio.
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	(ENG369Y)	(ENG369Y)
Recommended Preparation	Students should have developed a small body of creative works before enrolling in this course.	Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits	20	20
Note	Admission by portfolio. The portfolio should contain 10-20 pages of fiction (short stories or a novel excerpt). Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).	Admission by portfolio. The portfolio should contain 10-20 pages of fiction (short stories or a novel excerpt). Please email your portfolio to awestoll@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Instructor Hours Available Online	No	No

Course: ENGC44H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	Self and Other: Dialectics in Fiction	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	None	None
Learning Nature		
Prerequisite	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]	ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3) or (ENGB02H3)]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC76H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	The Body in Modernity: Theories and Representations	The Body in Literature and Film
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An interdisciplinary exploration of the body in art, film, photography, narrative and popular culture. This course will consider how bodies are written or visualized as "feminine" or "masculine", as heroic, as representing normality or perversity, beauty or monstrosity, legitimacy or illegitimacy, nature or culture.	An interdisciplinary exploration of the body in art, film, photography, narrative and popular culture. This course will consider how bodies are written or visualized as "feminine" or "masculine", as heroic, as representing normality or perversity, beauty or monstrosity, legitimacy or illegitimacy, nature or culture.
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	Two full credits at the B-level or above from ENG, WST, VPA, VPH, and/or VPS.	Two full credits at the B-level or above from ENG, WST, VPA, VPH, and/or VPS.
Exclusion	(VPAC47H3), (VPHC47H3)	(VPAC47H3), (VPHC47H3)
Recommended Preparation		
Enrolment Limits	45	45
Note		
Instructor Hours		
Available Online	No	No

Course: ENGC87H3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	Creative Writing: Fiction II	Creative Writing: Fiction II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An intensive study of the writing of fiction through a selected theme, topic, or author. The course will undertake its study through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 10-15 pages of your best fiction. Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).	An intensive study of the writing of fiction through a selected theme, topic, or author. The course will undertake its study through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 10-15 pages of your best fiction. Please email your portfolio to awestoll@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
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	ENGB61H3	ENGB61H3
Corequisite		
Exclusion		
Recommended Preparation	Students should have developed a small body of creative works before enrolling in this course.	Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: ENGD26Y3 - Compare

Owning Organizations	ENG,ENGSC	ENG,ENGSC
Sections	2015 - English	2015 - English
Calendar Title	Independent Studies in Creative Writing: Poetry	Independent Studies in Creative Writing: Poetry
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Advanced study of the writing of poetry for students who have excelled at the introductory and intermediate levels. Admission by portfolio. The portfolio should contain 15-25 pages of your best poetry and a 500-word description of your project. Please email your portfolio to dtysdal@utsc.utoronto.ca by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).	Advanced study of the writing of poetry for students who have excelled at the introductory and intermediate levels. Admission by portfolio. The portfolio should contain 15-25 pages of your best poetry and a 500-word description of your project. Please email your portfolio to dtysdal@utsc.utoronto.ca by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other		
Learning Nature		
Prerequisite	ENGB60H3 and ENGC86H3 and 1 other C-level Creative Writing course and permission of the instructor.	ENGB60H3 and ENGC86H3 and 1 other C-level Creative Writing course and permission of the instructor.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note	Students may count no more than 1.0 full credit of D-level independent study towards an English program.	Students may count no more than 1.0 full credit of D-level independent study towards an English program.
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: FREA02H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Language Practice II	Language Practice II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of FREA01H3.	A continuation of FREA01H3.
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	FREA01H3	FREA01H3
Corequisite		
Exclusion	Native or near-native fluency in French; (FREA10Y3), (FSL161Y), (FSL181Y), FSL221Y	Native or near-native fluency in French; (FREA10Y3), (FSL161Y), (FSL181Y), FSL221Y
Recommended Preparation		
Enrolment Limits		
Note		FREA02H3 is a prerequisite for all B-level French courses
Instructor Hours Available Online	No	No

Course: FREA96H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Introductory French I	Introductory French I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>An intensive basic course in written and spoken French; comprehension, speaking, reading and writing.</p> <p>This intensive, practical course is designed for students who have no previous knowledge of French.</p> <p>The placement test is mandatory for all students (even complete beginners) who register for the first time. The Department strongly recommends that the placement test be completed prior to registration.</p>	<p>An intensive basic course in written and spoken French; comprehension, speaking, reading and writing.</p> <p>This intensive, practical course is designed for students who have no previous knowledge of French.</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		
Corequisite		
Exclusion	(LGGA21H3), (LGGA22H3), (LGGB23H3), (LGGB24H3), FSL100H or equivalent	(LGGA21H3), (LGGA22H3), (LGGB23H3), (LGGB24H3), FSL100H or equivalent
Recommended Preparation		
Enrolment Limits	30 per section	30 per section
Note		
Instructor Hours		
Available Online	No	No

Course: FREA97H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Introductory French II	Introductory French II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>An intensive course in written and spoken French; a continuation of FREA96H3. This course is designed for students who have some knowledge of French. It continues the basic, comprehensive training in both written and oral French begun in FREA96H3, using the second half of the same textbook.</p> <p>A placement test is mandatory for all students who register for the first time in FREA96H3, FREA97H3, FREA98H3 and FREA99H3. The Department strongly recommends that the placement test be completed prior to registration.</p>	<p>An intensive course in written and spoken French; a continuation of FREA96H3. This course is designed for students who have some knowledge of French. It continues the basic, comprehensive training in both written and oral French begun in FREA96H3, using the second half of the same textbook.</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	FREA96H3 or (LGGA21H3)	FREA96H3 or (LGGA21H3)
Corequisite		
Exclusion	(LGGA22H3), FSL102H or equivalent.	(LGGA22H3), FSL102H or equivalent.
Recommended Preparation		
Enrolment Limits	30 per section	30 per section
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: FREA98H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Intermediate French I	Intermediate French I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Intended for students who have studied some French in high school or have some knowledge of French. Offers a review of all basic grammar concepts and training in written and spoken French. Reinforces reading comprehension, written skills and oral/aural competence.</p> <p>A placement test is mandatory for all students who register in FREA96H3, FREA97H3, FREA98H3 or FREA99H3 for the first time. The Department strongly recommends that the placement test be completed prior to registration.</p>	<p>Intended for students who have studied some French in high school or have some knowledge of French. Offers a review of all basic grammar concepts and training in written and spoken French. Reinforces reading comprehension, written skills and oral/aural competence.</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 Learning Nature	None	None
Prerequisite	FREA97H3 or (LGGA22H3)	FREA97H3 or (LGGA22H3)
Corequisite		
Exclusion	FSL121Y, (LGGB23H3) or equivalent	FSL121Y, (LGGB23H3) or equivalent
Recommended Preparation		
Enrolment Limits	30 per section	30 per section
Note		
Instructor Hours		
Available Online	No	No

Course: FREA99H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Intermediate French II	Intermediate French II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>Intended for students who have some knowledge of French and who wish to bring their proficiency up to the level of normal University entrance; a continuation of FREA98H3; prepares students for FREA01H3. Offers training in written and spoken French, reinforcing reading comprehension, written skills and oral/aural competence.</p> <p>A placement test is mandatory for all students who register in FREA96H3, FREA97H3, FREA98H3 or FREA99H3 for the first time. The Department strongly recommends that the placement test be completed prior to registration.</p>	<p>Intended for students who have some knowledge of French and who wish to bring their proficiency up to the level of normal University entrance; a continuation of FREA98H3; prepares students for FREA01H3. Offers training in written and spoken French, reinforcing reading comprehension, written skills and oral/aural competence.</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 Corequisite	FREA98H3 , (LGGB23H3) or equivalent.	FREA98H3 , (LGGB23H3) or equivalent.
Exclusion	Grade 12 French, (LGGB24H3), FSL121Y or equivalent. Cannot be taken concurrently or after FREA01H3 .	Grade 12 French, (LGGB24H3), FSL121Y or equivalent. Cannot be taken concurrently or after FREA01H3 .
Recommended Preparation		
Enrolment Limits	30 per section	30 per section
Note		
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: FREB17H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Conversation II	Spoken French: Conversation and Pronunciation
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Intensive practice in spoken French. Controlled situational work, discussion groups and a variety of exercises designed to improve lexical and syntactical resourcefulness will provide an opportunity for a reasonable degree of confidence when speaking about everyday life and contemporary topics. FREB17H3 can also be taken under Study Elsewhere.	Designed for students who wish to improve their speaking abilities. The course examines the French sound system with the goal of improving students' pronunciation in reading and everyday speech. Theoretical concepts are put into practice via structured exercises and various dialogues involving useful colloquial expressions.
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		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: FREB18H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Commercial French	French in the Workplace
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, Economics and Journalism, this course emphasizes commercial writing techniques and exercises that include the vocabulary and structures of business language primarily as found in the Canadian francophone community.	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: FREB28H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	The Francophone World	The Francophone World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of historical, political and cultural realities in different parts of the French-speaking world. Topics to be discussed will include slavery, colonization, de-colonization and multilinguism.	An examination of historical, political and cultural realities in different parts of the Francophone world excluding France and Canada. Topics to be discussed will include slavery, colonization, de-colonization and multilinguism.
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	[FREA01H3] & [FREA02H3] or equivalent.	[FREA01H3] & [FREA02H3] or equivalent.
Corequisite		
Exclusion	FSL362Y	FSL362Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: FREB70H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Cinema of the Francophone World	Cinema of the French-Speaking World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of films that have had a major impact on the development of francophone cinema. We will study motion pictures from France, Québec and other parts of the francophone world that have made a significant contribution to both modern cinematography and Western culture.	An examination of films that have had a major impact on the development of the French-Speaking world cinema. We will study motion pictures from France, Québec and other parts of the francophone world that have made a significant contribution to both modern cinematography and Western culture.
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		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: FREB84H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Folktale, Myth and the Fantastic in the French-Speaking World	Folktale, Myth and the Fantastic in the French-Speaking World
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of the imagined/imaginative in cultures and belief systems in the francophone world. Myths and folktales from Canada, the U.S., French Guyana, North and West Africa will be examined in terms of form, function, psychological dimensions and cultural interpretations of, for instance, life, death, food and individualism. This course was formerly taught in English, but will now be taught in French.	An examination of the imagined/imaginative in cultures and belief systems in the francophone world. Myths and folktales from Canada, the U.S., French Guyana, North and West Africa will be examined in terms of form, function, psychological dimensions and cultural interpretations of, for instance, life, death, food and 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	[FREA01H3] & [FREA02H3] or equivalent.	[FREA01H3] & [FREA02H3] or equivalent.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: FREC38H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Special Topics in the Literature of Québec: Postmodern Literature	Topics in the Literature of Québec
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An exploration of the textual forms and ideas that challenge tradition in contemporary Québécois postmodern literature speaks of vitality, liberating forces and creativity. We will examine issues such as gender identity, the question of the Self and the Other, and the impact of technology on our culture.	This course considers how Québec's literature, especially the novel, has changed since 1980. It focuses on the literary forms of the novel, the dialogues between novels and texts from different literatures (Anglo-Canadian, French, American), and various elements related to the contemporary or the postmodern.
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	FREB50H3 or equivalent.	FREB50H3 or equivalent.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: FREC47H3 - Compare

Owning Organizations	FRE,FLSC	FRE,FLSC
Sections	2015 - French	2015 - French
Calendar Title	Special Topics in Linguistics: Pidgin and Creole Languages	Pidgin and Creole Languages
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion. Same as LINC47H3 Taught in English	A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion. Same as LINC47H3 Taught 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	[LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]	[LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]
Corequisite		
Exclusion	LINC47H3	LINC47H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: GASD20H3 - Compare

Owning Organizations	GAS,HCSSC	GAS,HCSSC
Sections	2015 - Global Asia Studies	2015 - Global Asia Studies
Calendar Title	Senior Seminar: Social Change and Gender Relations in Chinese Societies	Advanced Seminar: Social Change and Gender Relations in Chinese Societies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research. Same as SOCD20H3	This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research. Same as SOCD20H3
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	[SOCA01H3 and SOCA02H3 and SOCB05H3 and one C-level course in SOC] or [GASA01H3 and one C-level course in SOC] or [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]	[SOCA01H3 and SOCA02H3 and SOCB05H3 and one C-level course in SOC] or [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]
Corequisite		
Exclusion	SOCD20H3	SOCD20H3
Recommended Preparation	GASB20H3 and GASC20H3	GASB20H3 and GASC20H3
Enrolment Limits	20	20
Note	Topics vary from year to year. Check the Global Asia Studies website at http://www.uts.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.	Topics vary from year to year. Check the Global Asia Studies website at http://www.uts.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: GGRB05H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Urban Geography	Urban Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will develop understanding of the geographic nature of urban systems and the internal spatial patterns and activities in cities. Emphasis is placed on the North American experience with some examples from other regions of the world. The course will explore the major issues and problems facing contemporary urban society and the ways they are analysed.	This course will develop understanding of the geographic nature of urban systems and the internal spatial patterns and activities in cities. Emphasis is placed on the North American experience with some examples from other regions of the world. The course will explore the major issues and problems facing contemporary urban society and the ways they are analysed. Area of Focus: Urban Geography
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	Any 4 credits	Any 4 credits
Corequisite		
Exclusion	GGR124H, (GGR124Y)	GGR124H, (GGR124Y)
Recommended Preparation		
Enrolment Limits	150	150
Note		
Instructor Hours		
Available Online	No	No

Course: GGRB13H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Social Geography	Social Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The reciprocal relations between spatial structures and social identities. The course examines the role of social divisions such as class, 'race'/ethnicity, gender and sexuality in shaping the social geographies of cities and regions. Particular emphasis is placed on space as an arena for the construction of social relations and divisions.	The reciprocal relations between spatial structures and social identities. The course examines the role of social divisions such as class, 'race'/ethnicity, gender and sexuality in shaping the social geographies of cities and regions. Particular emphasis is placed on space as an arena for the construction of social relations and divisions. Area of Focus: Social/Cultural Geography.
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	Any 4 credits	Any 4 credits
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	150	150
Note		
Instructor Hours Available Online	No	No

Course: GGRB21H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Environments and Environmentalisms	Environments and Environmentalisms
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This foundational course explores different conceptions of 'the environment' as they have changed through space and time. It also analyzes the emergence of different variants of environmentalism and their contemporary role in shaping environmental policy and practice.	This foundational course explores different conceptions of 'the environment' as they have changed through space and time. It also analyzes the emergence of different variants of environmentalism and their contemporary role in shaping environmental policy and practice. Area of Focus: Environmental Geography
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	ENV221H, ENV222H, GGR222H, JGE321H	ENV221H, ENV222H, GGR222H, JGE321H
Recommended Preparation		
Enrolment Limits	150	150
Note		
Instructor Hours		
Available Online	No	No

Course: GGRB28H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Geographies of Disease	Geographies of Disease
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines the geographical distribution of disease and the spatial processes in which diseases are embedded. Themes include spatial theories of health and disease and uneven development and health. Special attention will be given to the geographical dimension of the HIV pandemic.	Examines the geographical distribution of disease and the spatial processes in which diseases are embedded. Themes include spatial theories of health and disease and uneven development and health. Special attention will be given to the geographical dimension of the HIV pandemic. Area of Focus: Social/Cultural Geography
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	Any 4 credits	Any 4 credits
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	150	150
Note		
Instructor Hours		
Available Online	No	No

Course: GGRB55H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Cultural Geography	Cultural Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The course introduces core concepts in cultural geography such as race and ethnicity, identity and difference, public and private, landscape and environment, faith and community, language and tradition, and mobilities and social change. Emphasis will be on cross-disciplinary, critical engagement with current events, pop culture, and visual texts including comics, photos, and maps.	The course introduces core concepts in cultural geography such as race and ethnicity, identity and difference, public and private, landscape and environment, faith and community, language and tradition, and mobilities and social change. Emphasis will be on cross-disciplinary, critical engagement with current events, pop culture, and visual texts including comics, photos, and maps. Area of Focus: Social/Cultural Geography
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	Any 4.0 credits	Any 4.0 credits
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	150	150
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC02H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Population Geography	Population Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An examination of the geographical dimension to human population through the social dynamics of fertility, mortality and migration. Themes include disease epidemics, international migration, reproductive technologies, and changing family structure.	An examination of the geographical dimension to human population through the social dynamics of fertility, mortality and migration. Themes include disease epidemics, international migration, reproductive technologies, and changing family structure. Area of focus: Social/Cultural Geography
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	STAB22H3 and [GGRB02H3 or CITB02H3]	STAB22H3 and [GGRB02H3 or CITB02H3]
Corequisite		
Exclusion	GGR323H	GGR323H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC09H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Current Topics in Social Geography	Current Topics in Social Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examination and discussion of current trends and issues in social geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.	Examination and discussion of current trends and issues in social geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year. Area of focus: Social/Cultural Geography
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	GGRB02H3 & GGRB13H3	GGRB02H3 & GGRB13H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC10H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Urbanization and Development	Urbanization and Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines global urbanization processes and the associated transformation of governance, social, economic, and environmental structures particularly in the global south. Themes include theories of development, migration, transnational flows, socio-spatial polarization, postcolonial geographies of urbanization.	Examines global urbanization processes and the associated transformation of governance, social, economic, and environmental structures particularly in the global south. Themes include theories of development, migration, transnational flows, socio-spatial polarization, postcolonial geographies of urbanization. <u>Area of focus: Urban Geography</u>
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	[GGRB02H3 and GGRB05H3] or [CITB01H3 or CITB02H3] or [1.0 credit at the B-level in IDS courses]	[GGRB02H3 and GGRB05H3] or [CITB01H3 or CITB02H3] or [1.0 credit at the B-level in IDS courses]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC11H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Current Topics in Urban Geography	Current Topics in Urban Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examination and discussion of current trends and issues in urban geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.	Examination and discussion of current trends and issues in urban geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year. Area of focus: Urban Geography
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	[GGRB02H3 & GGRB05H3] or [CITB01H3 & CITB02H3]	[GGRB02H3 & GGRB05H3] or [CITB01H3 & CITB02H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC13H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Urban Political Geography	Urban Political Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Geographical approach to the politics of contemporary cities with emphasis on theories and structures of urban political processes and practices. Includes nature of local government, political powers of the property industry, big business and community organizations and how these shape the geography of cities.	Geographical approach to the politics of contemporary cities with emphasis on theories and structures of urban political processes and practices. Includes nature of local government, political powers of the property industry, big business and community organizations and how these shape the geography of cities. <u>Area of focus: Urban Geography</u>
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	[GGRB02H3 and GGRB05H3] or [CITB01H3 and CITB02H3] or POLC66H3	[GGRB02H3 and GGRB05H3] or [CITB01H3 and CITB02H3] or POLC66H3
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC21H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Current Topics in Environmental Geography	Current Topics in Environmental Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examination and discussion of current trends and issues in environmental geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.	Examination and discussion of current trends and issues in environmental geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year. Area of focus: Environmental Geography
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	GGRB02H3 & GGRB21H3 , (GGRB20H3)	GGRB02H3 & GGRB21H3 , (GGRB20H3)
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC22H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Political Ecology Theory and Applications	Political Ecology Theory and Applications
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Explores how politics, the economy, history and culture shape, and are shaped by interactions of people with the physical environment. Analysis moves beyond the roles government and interest groups in shaping environmental policies, to expanding our understanding of 'politics' in (i) environmental discourses and knowledge; (ii) economic systems; (iii) regimes of natural resource ownership and use; and (iv) everyday struggles within and between communities and interest groups as they shape human-nature relationships.	Explores how politics, the economy, history and culture shape, and are shaped by interactions of people with the physical environment. Analysis moves beyond the roles government and interest groups in shaping environmental policies, to expanding our understanding of 'politics' in (i) environmental discourses and knowledge; (ii) economic systems; (iii) regimes of natural resource ownership and use; and (iv) everyday struggles within and between communities and interest groups as they shape human-nature relationships. Area of focus: Environmental Geography
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	GGRB21H3 and [GGRB02H3 or IDSB02H3 or ESTB01H3]	GGRB21H3 and [GGRB02H3 or IDSB02H3 or ESTB01H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: GGRC24H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Socio-Natures and the Cultural Politics of 'The Environment'	Socio-Natures and the Cultural Politics of 'The Environment'
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Explores the processes through which segments of societies come to understand their natural surroundings, the social relations that produce those understandings, popular representations of nature, and how 'the environment' serves as a consistent basis of social struggle and contestation.	Explores the processes through which segments of societies come to understand their natural surroundings, the social relations that produce those understandings, popular representations of nature, and how 'the environment' serves as a consistent basis of social struggle and contestation. <u>Areas of focus: Environmental Geography; Social/Cultural Geography</u>
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	GGRB13H3 or GGRB21H3	GGRB13H3 or GGRB21H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC25H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Land Reform and Development	Land Reform and Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Land reform, which entails the redistribution of private and public lands, is broadly associated with struggles for social justice. It embraces issues concerning how land is transferred (through forceful dispossession, law, or markets), and how it is currently held. Land inequalities exist all over the world, but they are more pronounced in the developing world, especially in countries that were affected by colonialism. Land issues, including land reform, affect most development issues.	Land reform, which entails the redistribution of private and public lands, is broadly associated with struggles for social justice. It embraces issues concerning how land is transferred (through forceful dispossession, law, or markets), and how it is currently held. Land inequalities exist all over the world, but they are more pronounced in the developing world, especially in countries that were affected by colonialism. Land issues, including land reform, affect most development issues. Area of focus: Environmental Geography
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	GGRB02H3 and 1.0 credit from [GGRB13H3 , GGRB21H3 , IDSB01H3 , IDSB02H3 or AFSB01H3]	GGRB02H3 and 1.0 credit from [GGRB13H3 , GGRB21H3 , IDSB01H3 , IDSB02H3 or AFSB01H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: GGRC26H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Geographies of Environmental Governance	Geographies of Environmental Governance
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course addresses the translation of environmentalisms into formalized processes of environmental governance; and examines the development of environmental institutions at different scales, the integration of different forms of environmental governance, and the ways in which processes of governance relate to forms of environmental practice and management.	This course addresses the translation of environmentalisms into formalized processes of environmental governance; and examines the development of environmental institutions at different scales, the integration of different forms of environmental governance, and the ways in which processes of governance relate to forms of environmental practice and management. Area of focus: Environmental Geography
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	1.0 credit from [GGRB13H3 , GGRB21H3 , ESTB01H3]	1.0 credit from [GGRB13H3 , GGRB21H3 , ESTB01H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC27H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Location and Spatial Development	Location and Spatial Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Location of a firm; market formation and areas; agricultural location; urban spatial equilibrium; trade and spatial equilibrium; locational competition; equilibrium for an industry; trade and location.	Location of a firm; market formation and areas; agricultural location; urban spatial equilibrium; trade and spatial equilibrium; locational competition; equilibrium for an industry; trade and location. Area of focus: Urban Geography.
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	MGEA01H3 /(ECMA01H3) & [(GGRB02H3 & GGRB05H3) or (CITB01H3 & CITB02H3)] or [(MGEB01H3 /(ECMB01H3) or MGEB02H3 /(ECMB02H3)) & (MGEB05H3 /(ECMB05H3) or MGEB06H3 /(ECMB06H3))]	MGEA01H3 /(ECMA01H3) & [(GGRB02H3 & GGRB05H3) or (CITB01H3 & CITB02H3)] or [(MGEB01H3 /(ECMB01H3) or MGEB02H3 /(ECMB02H3)) & (MGEB05H3 /(ECMB05H3) or MGEB06H3 /(ECMB06H3))]
Corequisite		
Exclusion	(GGRB27H3), GGR220Y	(GGRB27H3), GGR220Y
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC32H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Essential Spatial Analysis	Essential Spatial Analysis
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course covers advanced theoretical and practical issues of using GIS systems for research and spatial analysis. Students will learn how to develop and manage GIS research projects, create and analyze three-dimensional surfaces, build geospatial models, visualize geospatial data, and perform advanced spatial analysis. Lectures introduce concepts and labs implement them.	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. Area of focus: Urban Geography.
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	STAB22H3 and GGRB30H3	STAB22H3 and GGRB30H3
Corequisite		
Exclusion	GGR276H	GGR276H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC33H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	The Toronto Region	The Toronto Region
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines issues of urban form and structure, urban growth and planning in the Toronto region. Current trends in population, housing, economy, environment, governance, transport, urban design and planning practices at the local level and the regional scale will be examined critically.	This course examines issues of urban form and structure, urban growth and planning in the Toronto region. Current trends in population, housing, economy, environment, governance, transport, urban design and planning practices at the local level and the regional scale will be examined critically. Area of focus: Urban Geography
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	1.0 credit from [GGRB02H3 , GGRB05H3 , CITB01H3 , CITC02H3]	1.0 credit from [GGRB02H3 , GGRB05H3 , CITB01H3 , CITC02H3]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC34H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Crowd-sourced Urban Geographies	Crowd-sourced Urban Geographies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Significant recent transformations of geographic knowledge are being generated by the ubiquitous use of smartphones and other distributed sensors, while web-based platforms such as Open Street Map and Public Participation GIS (PPGIS) have made crowd-sourcing of geographical data relatively easy. This course will introduce students to these new geographical spaces, approaches to creating them, and the implications for local democracy and issues of privacy they pose.	Significant recent transformations of geographic knowledge are being generated by the ubiquitous use of smartphones and other distributed sensors, while web-based platforms such as Open Street Map and Public Participation GIS (PPGIS) have made crowd-sourcing of geographical data relatively easy. This course will introduce students to these new geographical spaces, approaches to creating them, and the implications for local democracy and issues of privacy they pose. Area of focus: Urban Geography.
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	GGRB05H3 or GGRC30H3	GGRB05H3 or GGRC30H3
Corequisite		
Exclusion		
Recommended Preparation	GGRB32H3	GGRB32H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC40H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Megacities and Global Urbanization	Megacities and Global Urbanization
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The last 50 years have seen dramatic growth in the global share of population living in megacities over 10 million population, with most growth in the global south. Such giant cities present distinctive infrastructure, health, water supply, and governance challenges, which are increasingly central to global urban policy and health. Same as: CITC40H3	The last 50 years have seen dramatic growth in the global share of population living in megacities over 10 million population, with most growth in the global south. Such giant cities present distinctive infrastructure, health, water supply, and governance challenges, which are increasingly central to global urban policy and health. Area of focus: Urban Geography
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	At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology	At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Corequisite		
Exclusion	CITC40H3	CITC40H3
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC44H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Environmental Conservation and Sustainable Development	Environmental Conservation and Sustainable Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Deals with two main topics: the origins of environmental problems in the global spread of industrial capitalism, and environmental conservation and policies. Themes include: changes in human-environment relations, trends in environmental problems, the rise of environmental awareness and activism, environmental policy, problems of sustainable development.	Deals with two main topics: the origins of environmental problems in the global spread of industrial capitalism, and environmental conservation and policies. Themes include: changes in human-environment relations, trends in environmental problems, the rise of environmental awareness and activism, environmental policy, problems of sustainable development. Area of focus: Environmental Geography.
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	Any 8.0 credits	Any 8.0 credits
Corequisite		
Exclusion	GGR233Y and (GGRB20H3)	GGR233Y and (GGRB20H3)
Recommended Preparation	ESTB01H3 or GGRB21H3 or IDSB02H3	ESTB01H3 or GGRB21H3 or IDSB02H3
Enrolment Limits	80	80
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC45H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Local Geographies of Globalization	Local Geographies of Globalization
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines the localized consequences of global processes. Toronto will be used as a site for understanding how individuals interact with and experience the effects of globalizing forces differently based on their unique conditions of life and how they respond to the challenges and opportunities of a globalized world.	Examines the localized consequences of global processes. Toronto will be used as a site for understanding how individuals interact with and experience the effects of globalizing forces differently based on their unique conditions of life and how they respond to the challenges and opportunities of a globalized world. Areas of focus: Urban or Social/Cultural Geography.
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	GGRB02H3 and [GGRB05H3 or GGRB21H3 or GGRB02H3 and [GGRB05H3 or GGRB21H3 or IDSB01H3]	GGRB02H3 and [GGRB05H3 or GGRB21H3 or IDSB01H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC48H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Geographies of Urban Poverty	Geographies of Urban Poverty
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How have social and economic conditions deteriorated for many urban citizens? Is the geographic gap widening between the rich and the poor? This course will explore the following themes: racialization of poverty, employment and poverty, poverty and gender socio-spatial polarization, and housing and homelessness.	How have social and economic conditions deteriorated for many urban citizens? Is the geographic gap widening between the rich and the poor? This course will explore the following themes: racialization of poverty, employment and poverty, poverty and gender socio-spatial polarization, and housing and homelessness. <div style="border: 1px dashed red; padding: 2px;">Area of focus: Urban Geography.</div>
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	[GGRB02H3 and GGRB05H3] or [CITB01H3 and CITB02H3]	[GGRB02H3 and GGRB05H3] or [CITB01H3 and CITB02H3]
Corequisite		
Exclusion		
Recommended Preparation	1.0 credits at the B-level in either Human Geography or City Studies	1.0 credits at the B-level in either Human Geography or City Studies
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC49H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Land, Development, and Struggle in Latin America	Land, Development, and Struggle in Latin America
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The politics of land and territorial rights are a central theme in international development practice in Latin America. This course attends to how development policy shapes access to, control of, and struggles over land and natural resources. The land and territorial struggles of women and indigenous, Afro-descendant and campesino communities inform course content.	The politics of land and territorial rights are a central theme in international development practice in Latin America. This course attends to how development policy shapes access to, control of, and struggles over land and natural resources. The land and territorial struggles of women and indigenous, Afro-descendant and campesino communities inform course content.
		Areas of focus: Environmental or Social/Cultural Geography.
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	Any 8.0 credits	Any 8.0 credits
Corequisite		
Exclusion		
Recommended Preparation	GGRB05H3 or GGRB13H3 or IDSA01H3	GGRB05H3 or GGRB13H3 or IDSA01H3
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC50H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Geographies of Education	Geographies of Education
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Explores the social geography of education, especially in cities. Topics include geographical educational inequalities; education, class and race; education, the family, and intergenerational class immobility; the movement of children to attend schools; education and the 'right to the city.'	Explores the social geography of education, especially in cities. Topics include geographical educational inequalities; education, class and race; education, the family, and intergenerational class immobility; the movement of children to attend schools; education and the 'right to the city.'
		Areas of focus: Urban or Social/Cultural Geography.
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	[GGRA02H3 or GGRA03H3] and GGRB02H3	[GGRA02H3 or GGRA03H3] and GGRB02H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: GGRC56H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities	Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Cultural Politics and political economy of travel and mobilities across time and space. Covers migration and immigration, tourism and travel encounters, diaspora and displacement, religious missions and pilgrimages, study abroad and working holiday, transportation and communication technologies, and narratives of time travel. Addresses how these extraordinary and everyday mobilities and immobilities inform geographies of race, gender, sexuality, and nation.	Cultural Politics and political economy of travel and mobilities across time and space. Covers migration and immigration, tourism and travel encounters, diaspora and displacement, religious missions and pilgrimages, study abroad and working holiday, transportation and communication technologies, and narratives of time travel. Addresses how these extraordinary and everyday mobilities and immobilities inform geographies of race, gender, sexuality, and nation. Area of focus: Social/Cultural Geography.
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	GGRB02H3 or CITB02H3	GGRB02H3 or CITB02H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: GGRD08H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Research Seminar in Environmental Geography	Research Seminar in Environmental Geography
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of advanced theoretical and methodological issues in Environmental Geography. Specific content will vary from year to year. Seminar format with active student participation.	Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of advanced theoretical and methodological issues in Environmental Geography. Specific content will vary from year to year. Seminar format with active student participation. Area of focus: Environmental Geography.
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	15.0 credits, including completion of the following requirements from the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods. Priority will be given to Geography Majors with the highest CGPA.	15.0 credits, including completion of the following requirements from the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods. Priority will be given to Geography Majors with the highest CGPA.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: GGRD09H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Feminist Geographies	Feminist Geographies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How do gender relations shape different spaces? We will explore how feminist geographers have approached these questions from a variety of scales - from the home, to the body, to the classroom, to the city, to the nation, drawing on the work of feminist geographers.	How do gender relations shape different spaces? We will explore how feminist geographers have approached these questions from a variety of scales - from the home, to the body, to the classroom, to the city, to the nation, drawing on the work of feminist geographers. Area of focus: Social/Cultural Geography.
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	15.0 credits including 1.5 credits at the B-level in GGR or WST courses	15.0 credits including 1.5 credits at the B-level in GGR or WST courses
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: GGRD10H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Health and Sexuality	Health and Sexuality
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines links between health and human sexuality. Particularly explores sexually transmitted infections. Attention will be given to the socially and therefore spatially constructed nature of sexuality. Other themes include sexual violence, masculinities and health, reproductive health, and transnational relationships and health. Examples will be taken from a variety of countries.	Examines links between health and human sexuality. Particularly explores sexually transmitted infections. Attention will be given to the socially and therefore spatially constructed nature of sexuality. Other themes include sexual violence, masculinities and health, reproductive health, and transnational relationships and health. Examples will be taken from a variety of countries. Area of focus: Social/Cultural Geography.
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	15.0 credits including 1.5 credits at the B-level in GGR, IDS or WST courses	15.0 credits including 1.5 credits at the B-level in GGR, IDS or WST courses
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: GGRD14H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Social Justice and the City	Social Justice and the City
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines links between politics of difference, social justice and cities. Covers theories of social justice and difference with a particular emphasis placed on understanding how contemporary capitalism exacerbates urban inequalities and how urban struggles such as Occupy Wall Street seek to address discontents of urban dispossession. Examples of urban social struggles will be drawn from global North and South.	Examines links between politics of difference, social justice and cities. Covers theories of social justice and difference with a particular emphasis placed on understanding how contemporary capitalism exacerbates urban inequalities and how urban struggles such as Occupy Wall Street seek to address discontents of urban dispossession. Examples of urban social struggles will be drawn from global North and South. <div style="border: 1px dashed red; padding: 2px;">Areas of focus: Urban or Social/Cultural Geography.</div>
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	15.0 credits including 1.5 credits at the B-level in CIT or GGR or IDS courses	15.0 credits including 1.5 credits at the B-level in CIT or GGR or IDS courses
Corequisite		
Exclusion		
Recommended Preparation	GGRB05H3 or GGRB13H3 or IDSB06H3	GGRB05H3 or GGRB13H3 or IDSB06H3
Enrolment Limits	25	25
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: GGRD19H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Spaces of Multiraciality: Critical Mixed Race Theory	Spaces of Multiraciality: Critical Mixed Race Theory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	From Tiger Woods to Mariah Carey, the popular mixed race phenomenon has captured the popular imagination and revealed the contradictory logic of categorization underpinning racial divisions. We will explore the complexities of racial identity formation to illuminate the experiences of those who fall outside the prevailing definitions of racial identities.	From Tiger Woods to Mariah Carey, the popular mixed race phenomenon has captured the popular imagination and revealed the contradictory logic of categorization underpinning racial divisions. We will explore the complexities of racial identity formation to illuminate the experiences of those who fall outside the prevailing definitions of racial identities. Area of focus: Social/Cultural Geography.
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	15.0 credits including 1.5 credits at the B-level in GGR or IDS courses	15.0 credits including 1.5 credits at the B-level in GGR or IDS courses
Corequisite		
Exclusion	(GGRC19H3)	(GGRC19H3)
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: GGRD25H3 - Compare

Owning Organizations	GGR,GGRSC	GGR,GGRSC
Sections	2015 - Geography	2015 - Geography
Calendar Title	Research Seminar in Urban Spaces	Research Seminar in Urban Spaces
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of current theoretical and methodological issues in urban geography. Specific content will vary from year to year. Seminar format with active student participation.	Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of current theoretical and methodological issues in urban geography. Specific content will vary from year to year. Seminar format with active student participation. Area of focus: Urban Geography.
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	15.0 credits, including completion of the following requirements from the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods. Priority will be given to Geography Majors with the highest CGPA.	15.0 credits, including completion of the following requirements from the Major Program and Concepts, 3) Methods. Priority will be given to Geography Majors with the highest CGPA.
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: HLTC04H3 - Compare

Owning Organizations	HLT,ANTSC	HLT,ANTSC
Sections	2015 - Health Studies	2015 - Health Studies
Calendar Title	Methods	Critical Qualitative Health Research Methods
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Through this course, students learn how to create a methodologically sound health studies research proposal. Students are given the intellectual resources and practical skills to produce a proposal by the end of the semester. Students learn the fundamentals of rearch practice, explore various methodological approaches and designs, and learn how to report their research findings. An assumption framing this course is that the work accomplished through it can form the basis of the student's fourth year major research project in health studies.	Through this course, students learn how to create a methodologically sound health studies research proposal. Students are given the intellectual resources and practical skills to produce a proposal by the end of the semester. Students learn the fundamentals of rearch practice, explore various methodological approaches and designs, and learn how to report their research findings. An assumption framing this course is that the work accomplished through it can form the basis of the student's fourth year major research project in health studies.
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		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: IDSB04H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	International Health Policy Analysis	Introduction to International/Global Health
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course explores institutional, economic, social, epidemiological, ideological, and political forces in the field of international health. Key themes include political economy of health and development; distribution of disease; social determinants of health; financing and organization of health systems; international health agencies; role of civil society, and globalization and health.</p>	<p>This course offers an introduction to the institutional, social, economic, epidemiological, ideological, and political forces in the field of international/global health. While considerable reference will be made to "high-income" countries, the major emphasis will be on the health conditions of "low-income" countries -- as well as the interaction of these conditions with the international aid system. After setting the historical and political economy context, the course will explore key topics and themes in international/global health including: international health agencies and activities; data on health; epidemiology and the global distribution of health and disease; the societal determinants of health and social inequalities in health; health economics and the organization of health care systems in comparative context; globalization, trade, work, and health; health and the environment; the ingredients of healthy societies across the world; and Canada's/your/civil society's role in global health policy-making.</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 Corequisite	5.0 full credits including IDSA01H3	5.0 full credits including IDSA01H3

Exclusion

Recommended

Preparation

Enrolment

Limits

Note

Instructor

Hours

Available No

No

Online

Course: IDSC06H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	Directed Research on Canadian Institutions and International Development	Directed Reading on Canadian Institutions and International Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Introduces students to the role of Canadian institutions (both non-government organizations and private agencies) working in international development. Students taking this course will arrange, in consultation with the instructor, to work (usually as a volunteer) in a Canadian institution. They will write a major research paper related to some aspect of their experience. The course will use and apply some of the techniques and skills taught in IDSC04H3. Students must obtain consent from the Supervisor of Studies before registering for this course.	This Directed Readings course is designed for students who already have an ongoing working relationship with a Canadian Development institution (both non-government organizations and private agencies). The course will run parallel to the work experience. Students interested in this course must contact and obtain permission from the CCDS Associate Director prior to the beginning of term.
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	IDSA01H3 and [1.0 credit at the B-level in IDS courses]	IDSA01H3 and [1.0 credit at the B-level in IDS courses]
Corequisite		
Exclusion		
Recommended Preparation	IDSC04H3	IDSC04H3
Enrolment Limits		
Note		
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available

Online

No

No

Course: IDSC11H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	Issues in International Health	Issues in Global and International Health
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Key international health issues are explored in-depth in three learning phases. We start with a reading and discussion seminar on health inequities, globalization, and health reform. Next, students develop group projects designed to raise awareness around particular international health problems. The third phase involves individual research projects and class presentations.	Key global and international health issues are explored in-depth in three learning phases. We begin with a reading and discussion seminar on international/global health policy and politics. (Exact topic changes each year based on student interest and developments in the field). Next, students develop group projects designed to raise awareness around particular global and international health problems, culminating in UTSC International Health Week in the Meeting Place. The third phase --which unfolds throughout the course-- involves individual research projects and class presentations.
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	IDSA01H3 & IDSB04H3	IDSA01H3 & IDSB04H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: IDSD02H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	Supervised Research in International Development	Advanced Seminar in Critical Development Studies: Theory and Policy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An independent studies course open only to students in the Specialist Non-co-op Program in IDS. Students will carry out a research project and write a research paper under the individual supervision of a faculty member. Students will present the results of their research in a conference at the end of the term.	An advanced seminar in critical development theory and policy, with an emphasis on perspectives and theories from the global South. Students will write a series of theoretical reflections on contemporary policy issues, that contributes to a final critical development theory paper. Students will present the results of their thinking in a conference setting.
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	15.0 credits including IDSA01H3 , completion of Requirements 1-3 and at least 2.0 credits in Requirement 4 in the Specialist Program. One of the credits from Requirement 4 must be at the C- or D-level. Students with a CGPA of less than 2.5 will not be admitted.	15.0 credits including IDSA01H3 , completion of Requirements 1-3 and at least 2.0 credits in Requirement 4 in the Specialist Program. One of the credits from Requirement 4 must be at the C- or D-level. Students with a CGPA of less than 2.5 will not be admitted.
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	Restricted to students IDS Specialist BA (non-co-op).	Restricted to students IDS Specialist BA (non-co-op).
Note		
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: IDSD14H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	Directed Reading	Directed Reading
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the Supervisor of Studies before registering for this course.	The goal of the course is for students to examine in a more extensive fashion the academic literature on a particular topic in International Development Studies not covered by existing course offering. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the CCDS Associate Director before registering for this course.
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	IDSA01H3 and IDSB01H3 and IDSB02H3 and permission of the instructor.	IDSA01H3 and IDSB01H3 and IDSB02H3 and permission of the instructor.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: IDSD15H3 - Compare

Owning Organizations	IDS,CDSSC	IDS,CDSSC
Sections	2015 - International Development Studies	2015 - International Development Studies
Calendar Title	Directed Reading	Directed Research
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the Supervisor of Studies before registering for this course.	The goal of the course is for students to prepare and write a senior undergraduate research paper in International Development Studies. For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the CCDS Associate Director before registering for this course.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	IDSA01H3 and IDSB01H3 and IDSB02H3 and permission of the instructor.	IDSA01H3 and IDSB01H3 and IDSB02H3 and permission of the instructor.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: LINC47H3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2015 - Linguistics	2015 - Linguistics
Calendar Title	Special Topics in Linguistics: Pidgin and Creole Languages	Pidgin and Creole Languages
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish, and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion. Same as FREC47H3.	A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish, and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion. Same as FREC47H3.
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	[LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]	[LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]
Corequisite		
Exclusion	FREC47H3	FREC47H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: LIND29H3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2015 - Linguistics	2015 - Linguistics
Calendar Title	Seminar in Sociolinguistic Methodologies	Linguistic Research Methodologies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Teaches research methodologies for sociolinguistics (interviews, corpus collection, surveys, ethnography, etc.) and helps students conduct individual research studies in real-life contexts.	This course focuses on research methodologies (interviews, corpus collection, surveys, ethnography, etc.). Students conduct individual research studies in real-life contexts. Note: Topics will vary each time the course is offered. Please check with the CFL Undergraduate Assistant or on the Web Timetable on the Registrars Office website for details regarding proposed subject matter.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other	None	None
Prerequisite	LINB20H3 and [one sociolinguistics course at the C-level (e.g. LINC28H3 or (LINC30H3))]	LINB20H3 and [one sociolinguistics course at the C-level (e.g. LINC28H3 or (LINC30H3))]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: LIND46H3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2015 - Linguistics	2015 - Linguistics
Calendar Title	Field Methods in Linguistics	Field Methods in Linguistics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Practice in language analysis based on elicited data from second language learners and foreign speakers. Emphasis is put on procedures and techniques of data collection, as well as theoretical implications arising from data analysis. Same as FRED46H3.	Practice in language analysis based on elicited data from second language learners and foreign speakers. Emphasis is put on procedures and techniques of data collection, as well as theoretical implications arising from data analysis.
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	[FREB44H3 and FREC46H3] or [LINC02H3 and LINC11H3]	[FREB44H3 and FREC46H3] or [LINC02H3 and LINC11H3]
Corequisite		
Exclusion	FRED46H3 , JAL401H	[FRED46H3] , JAL401H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MATD10H3 - Compare

Owning Organizations	MAT,MSCSC	MAT,MSCSC
Sections	2015 - Mathematics	2015 - Mathematics
Calendar Title	Topics in Mathematics	Topics in Mathematics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by 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	MATC01H3 and [MATC35H3 or MATC37H3] and [MATC15H3 or MATD02H3]	MATC01H3 and [MATC35H3] or MATC37H3] and [MATC15H3 or MATD02H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		
Hours		
Available Online	No	No

Course: MATD11H3 - Compare

Owning Organizations	MAT,MSCSC	MAT,MSCSC
Sections	2015 - Mathematics	2015 - Mathematics
Calendar Title	Topics in Mathematics	Topics in Mathematics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by 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	MATC01H3 and [MATC35H3 or MATC37H3] and [MATC15H3 or MATD02H3]	MATC01H3 and [MATC35H3] or MATC37H3] and [MATC15H3 or MATD02H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MATD12H3 - Compare

Owning Organizations	MAT, MSCSC	MAT, MSCSC
Sections	2015 - Mathematics	2015 - Mathematics
Calendar Title	Topics in Mathematics	Topics in Mathematics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.	A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other		
Learning Nature		
Prerequisite	MATC01H3 and [MATC35H3 or MATC37H3] and [MATC15H3 or MATD02H3]	MATC01H3 and [MATC35H3] or MATC37H3] and [MATC15H3 or MATD02H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: MDSA02H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	History of Media and Technology	History of Media
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course surveys the history of media and communication technologies, from the development of writing through the printing press, newspaper, telegraph, radio, film, television and internet. Students examine the complex interplay among changing media technologies and cultural, political and social changes, from the rise of a public sphere to the development of highly-mediated forms of self identity.	This course surveys the history of media and communication from the development of writing through the printing press, newspaper, telegraph, radio, film, television and internet. Students examine the complex interplay among changing media technologies and cultural, political and social changes, from the rise of a public sphere to the development of highly-mediated forms of self identity.
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: MDSB62H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	Visual Culture	Visual Culture and Communication
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Visual Culture studies the construction of the visual in art, media, technology and everyday life. Students learn the tools of visual analysis; investigate how visual depictions such as YouTube and advertising structure and convey ideologies; and study the institutional, economic, political, social, and market factors in the making of contemporary visual culture.	Visual Culture studies the construction of the visual in art, media, technology and everyday life. Students learn the tools of visual analysis; investigate how visual depictions such as YouTube and advertising structure and convey ideologies; and study the institutional, economic, political, social, and market factors in the making of contemporary visual culture.
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 or (NMEA20H3)	MDSA01H3 or (NMEA20H3)
Corequisite		
Exclusion	(NMEB20H3)	(NMEB20H3)
Recommended Preparation		
Enrolment Limits	50	50
Note		
Instructor Hours		
Available Online	No	No

Course: MDSB63H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	Sound and Visual Media	Sound and Visual Media
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores the importance of sound and sound technology to visual media practices by considering how visuality in cinema, video, television, gaming, and new media art is organized and supported by aural techniques such as music, voice, architecture, and sound effects.	This course explores the importance of sound and sound technology to visual media practices by considering how visuality in cinema, video, television, gaming, and new media art is organized and supported by aural techniques such as music, voice, architecture, and sound effects.
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	MDSA01H3 and MDSA02H3	MDSA01H3 and MDSA02H3
Corequisite		
Exclusion		
Recommended Preparation	ACMA01H3	ACMA01H3
Enrolment Limits	20	20
Note	Priority will be given to students enrolled in programs offered by the Department of Arts, Culture and Media. Additional students may be admitted as space permits with permission from the Media Studies Program Director.	
Instructor Hours		
Available Online	No	No

Course: MDSC01H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	Theories and Methods in Media Studies	Theories in Media Studies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This is an advanced seminar on theories and methodologies applied to the study of media. Topics vary.	This is an advanced seminar on theories and methodologies applied to the study of media. Topics vary.
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	Any 5.0 credits including [MDSA01H3 or (NMEA20H3)] & MDSA02H3	Any 5.0 credits including [MDSA01H3 or (NMEA20H3)] & MDSA02H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC02H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	Topics in 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
Prerequisite	5.0 credits, including [MDSA01H3 or (NMEA20H3)]	5.0 credits, including [MDSA01H3 or (NMEA20H3)]
Corequisite Exclusion		
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		
Available Online	No	No

Course: MDSC64H3 - Compare

Owning Organizations	MDS,ACMSC	MDS,ACMSC
Sections	2015 - Media Studies	2015 - Media Studies
Calendar Title	Old Media, New Media: Film and Technology	Film 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.	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.
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	Any 5.0 credits including MDSA02H3	Any 5.0 credits including MDSA02H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	35	35
Note		
Instructor Hours		
Available Online	No	No

Course: MGEC63H3 - Compare

Owning Organizations	ECM,MGTEC	ECM,MGTEC
Sections	2015 - Economics for Management Studies	2015 - Economics for Management Studies
Calendar Title	Financial Crises: Causes, Consequences and Policy Implications	Financial Crises: Causes, Consequences and Policy Implications
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course studies the causes, consequences and policy implications of recent financial crises. It studies key theoretical concepts of international finance such as exchange-rate regimes, currency boards, common currency, banking and currency crises. The course will describe and analyze several major episodes of financial crises, such as Latin America in the 1980s, East Asia, Europe, Mexico and Russia in the 1990s, and Turkey and Argentina in recent years.	This course studies the causes, consequences and policy implications of recent financial crises. It studies key theoretical concepts of international finance such as exchange-rate regimes, currency boards, common currency, banking and currency crises. The course will describe and analyze several major episodes of financial crises, such as East Asia, Mexico and Russia in the 1990s, Argentina in the early 2000s, the U.S.A. and Greece in the late 2000s and others in recent years.
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	MGEC61H3 /(ECMC61H3)	MGEC61H3 /(ECMC61H3)
Corequisite		
Exclusion	(ECMC63H3)	(ECMC63H3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: MGHC02H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2015 - Management	2015 - Management
Calendar Title	Leadership 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 (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: MGHD14H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2015 - Management	2015 - Management
Calendar Title	Leadership and Management in the 21st Century	Leadership
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This advanced leadership seminar builds on MGHC02H3/(MGTC90H3) Leadership Skills, and focuses on leaders as agents of change. Through case studies, skill-building exercises, and world-class research, students will learn how to 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	None	None
Learning Nature		
Prerequisite	[MGHB02H3] or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] and [(MGTC24H3) or MGHC02H3 /(MGTC90H3)]	[MGHB02H3] or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] and [(MGTC24H3) or MGHC02H3 /(MGTC90H3)]
Corequisite		
Exclusion	(MGTD14H3)	(MGTD14H3)
Recommended Preparation		
Enrolment Limits	30	30
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: MGSC44H3 - Compare

Owning Organizations	MGT,MGTEC	MGT,MGTEC
Sections	2015 - Management	2015 - Management
Calendar Title	International Business Management	International Business Management
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This Course deals with: political risk & contingency planning; human threats; weather extremes; NGOs (WTO, IMF & World Bank); government influences - dumping, tariffs, subsidies;cultures around the world; foreign exchange issues; export financing for international business; international collaborative arrangements; and pro-active/re-active reasons for companies going international. There will also be guest speakers.	This Course deals with: political risk & contingency planning; human threats; weather extremes; NGOs (WTO, IMF & World Bank); government influences - dumping, tariffs, subsidies;cultures around the world; foreign exchange issues; export financing for international business; international collaborative arrangements; and pro-active/re-active reasons for companies going international. There will also be guest speakers.
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) and (MGTB29H3)] or (MGTB27Y3)	MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Corequisite		
Exclusion	(MGTC44H3), MGT491H, RSM490H	(MGTC44H3), MGT491H, RSM490H
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: NROD08H3 – Compare

Owning Organizations	NRO,PSYSC	NRO,PSYSC
Sections	2015 – Neuroscience	2015 – 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.	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
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	[NROD34H3 or NROC64H3 or NROC69H3], [MATA30H3 or MATA31H3] and [PSYB07H3 or STAB22H3]	[NROC34H3 or NROC64H3 or NROC69H3], [MATA30H3 or MATA31H3] and [PSYB07H3 or STAB22H3]
Corequisite		
Exclusion	BIOD08H3	BIOD08H3
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: PHLD79H3 - Compare

Owning Organizations	PHL,PHLSC	PHL,PHLSC
Sections	2015 - Philosophy	2015 - Philosophy
Calendar Title	Advanced Seminar in Metaphysics	Advanced Seminar in Metaphysics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This seminar addresses core issues in the metaphysics of mind. Topics to be discussed may include the nature of persons and personal identity, whether physicalism is true, what is the relation of mind to reality in general, the nature of animal minds and the question of whether machines can possess minds.	This seminar addresses core issues in metaphysics. Topics to be discussed may include the nature of persons and personal identity, whether physicalism is true, what is the relation of mind to reality in general, the nature of animal minds and the question of whether machines can possess minds.
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	3.5 credits in Philosophy, at least 1.0 credit at the C-level.	3.5 credits in Philosophy, at least 1.0 credit at the C-level.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: PHYD37H3 - Compare

Owning Organizations	PHSSC,PHY	PHSSC,PHY
Sections	2015 - Physics and Astrophysics	2015 - Physics and Astrophysics
Calendar Title	Introduction to Fluid Mechanics	Introduction to Fluid Mechanics
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Description and understanding of the dynamics of fluid systems. Topics covered include the idea of continuum, total derivative, equations for mass and energy conservation, Navier-Stokes equations; introduces tensor notation; stream function, streamlines, trajectories, rate of strain, vorticity; viscous fluids, non-Newtonian rheologies; Bernoulli's equation, channel flow, turbulence, Reynold's number.	A course describing and analyzing the dynamics of fluids. Topics include: Continuum mechanics; conservation of mass, momentum and energy; constitutive equations; tensor calculus; dimensional analysis; Navier-Stokes fluid equations; Reynolds number; Inviscid and viscous flows; heat conduction and fluid convection; Bernoulli's equation; basic concepts on boundary layers, waves, turbulence.
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	PHYC54H3	PHYC54H3
Corequisite		
Exclusion	PHY454H	PHY454H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: PLIC54H3 - Compare

Owning Organizations	LIN,FLSC	LIN,FLSC
Sections	2015 - Linguistics	2015 - Linguistics
Calendar Title	Speech Pathology and Speech Disorders in Children and Adults	Speech Physiology and Speech Disorders in Children and Adults
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the physics of sound and the physiology of speech perception and production for the purpose of assessing and treating speech disorders in children and adults. Topics will include acoustic, perceptual, kinematic, and aerodynamic methods of assessing speech disorders as well as current computer applications that facilitate assessment.	An introduction to the physics of sound and the physiology of speech perception and production for the purpose of assessing and treating speech disorders in children and adults. Topics will include acoustic, perceptual, kinematic, and aerodynamic methods of assessing speech disorders as well as current computer applications that facilitate assessment.
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	LINB09H3	LINB09H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLB70H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Classic Texts in Political Theory I	Classic Texts in Political Theory I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to central concepts in political theory, such as justice, rights, and the state. Readings will include classical and medieval texts, such as Plato's <i>Republic</i> and Aristotle's <i>Poetics</i> . Area of Focus: Political Theory	This course introduces students to central concepts in political theory, such as justice, rights, and the state. Readings will include classical and medieval texts, such as Plato's <i>Republic</i> and Aristotle's <i>Politics</i> . Area of Focus: Political Theory
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 4.0 credits	Any 4.0 credits
Corequisite		
Exclusion	POL200Y	POL200Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLB71H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Classic Texts in Political Theory II	Classic Texts in Political Theory II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course introduces students to central concepts in political theory, such as sovereignty, liberty, and equality. Readings will include modern and contemporary texts, such as Hobbes' <i>Leviathan</i> and Locke's <i>Second Treatise of Government</i> . Area of Focus: Political Theory	This course introduces students to central concepts in political theory, such as sovereignty, liberty, and equality. Readings will include modern and contemporary texts, such as Hobbes' <i>Leviathan</i> and Locke's <i>Second Treatise of Government</i> . Area of Focus: Political Theory
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	POLB70H3 Note: It is strongly recommended that students take POLB70H3 and POLB71H3 in consecutive sessions.	POLB70H3 Note: It is strongly recommended that students take POLB70H3 and POLB71H3 in consecutive sessions.
Corequisite		
Exclusion	POL200Y	POL200Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLB80H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Introduction to International Relations	Introduction to International Relations
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines different approaches to international relations, the characteristics of the international system, and the factors that motivate foreign policies. Area of Focus: International Relations	This course examines different approaches to international relations, the characteristics of the international system, and the factors that motivate foreign policies. Area of Focus: International Relations
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	Any 4.0 credits	Any 4.0 credits
Corequisite		
Exclusion	POL208Y	POL208Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLB81H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Global Issues and Governance	Introduction to International Relations II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines how the global system is organized and how issues of international concern like conflict, human rights, the environment, trade, and finance are governed. Area of Focus: International Relations	This course examines how the global system is organized and how issues of international concern like conflict, human rights, the environment, trade, and finance are governed. Area of Focus: International Relations
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	POLB80H3 Note: It is strongly recommended that students take POLB80H3 and POLB81H3 in consecutive sessions.	POLB80H3 Note: It is strongly recommended that students take POLB80H3 and POLB81H3 in consecutive sessions.
Corequisite		
Exclusion	POL208Y	POL208Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLB93H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Comparative Politics: Ethnic Conflict and Democratization in Europe After the Cold War	Ethnic Conflict and Democratization in Europe After the Cold War
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course explores post-Cold War politics in Europe through an examination of democratization and ethnic conflict since 1989 - focusing in particular on the role of the European Union in shaping events in Eastern Europe. The first part of the course will cover theories of democratization, ethnic conflict as well as the rise of the European Union while the second part of the course focuses on specific cases.</p> <p>Area of Focus: Comparative Politics</p>	<p>This course explores post-Cold War politics in Europe through an examination of democratization and ethnic conflict since 1989 - focusing in particular on the role of the European Union in shaping events in Eastern Europe and the former Soviet Union. The first part of the course will cover theories of democratization, ethnic conflict as well as the rise of the European Union while the second part of the course focuses on specific cases, including democratization and conflict in the Balkans and Ukraine.</p> <p>Area of Focus: 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	None	None
Learning Nature		
Prerequisite	POLB92H3 Note: It is strongly recommended that students take POLB92H3 and POLB93H3 in consecutive sessions.	POLB92H3 Note: It is strongly recommended that students take POLB92H3 and POLB93H3 in consecutive sessions.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: POLC39H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Comparative Legal Systems	Comparative Legal Systems
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course explores some of the key aspects and issues of public law in modern, democratic systems of government from a comparative perspective. It does this by reviewing and applying theory and empirical analysis to a number of cases to explore five key issues: the institutional separation of power, the structure of the judiciary, the mechanisms (or lack thereof) to distribute power and resources between groups/territories, the mechanisms (or lack thereof) to protect individual and group rights, and how/if the constitutional order can be changed/amended. Cases considered will include: Canada, UK, Spain, Germany, Australia, America, India and South Africa. Area of Focus: Comparative Politics	This course explores some of the key aspects and issues of public law in modern, democratic systems of government from a comparative perspective. It does this by reviewing and applying theory and empirical analysis to a number of cases to explore five key issues: the institutional separation of power, the structure of the judiciary, the mechanisms (or lack thereof) to distribute power and resources between groups/territories, the mechanisms (or lack thereof) to protect individual and group rights, and how/if the constitutional order can be changed/amended. Cases considered will include: Canada, UK, Spain, Germany, Australia, America, India and South Africa. Area of Focus: Comparative 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	POLB30H3	POLB30H3
Corequisite		
Exclusion		
Recommended Preparation	POLB92H3 or POLB93H3	POLB92H3 or POLB93H3
Enrolment Limits		
Note		
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: POLC73H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Modern Political Theory	Modern Political Theory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is a study of the major political philosophers of the nineteenth century, including Hegel, Marx, J.S. Mill and Nietzsche. Area of Focus: Political Theory	This course is a study of the major political philosophers of the nineteenth century, including Hegel, Marx, J.S. Mill and Nietzsche. Area of Focus: Political Theory
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	[POLB70H3 & POLB71H3] or equivalent	[POLB70H3 & POLB71H3] or equivalent
Corequisite		
Exclusion	POL320Y	POL320Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLC83H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	The Application of American Foreign Policy	Applications of American Foreign Policy
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course examines the foreign policy of the United States by analyzing its context and application to a number of specific regions and problems in the world. Areas of Focus: International Relations; Public Policy	This course examines the foreign policy of the United States by analyzing its context and application to a specific region, regions or contemporary problems in the world. Areas of Focus: International Relations; Public Policy; Comparative 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
Learning Nature		
Prerequisite	One full credit from: POLB80H3 , POLB81H3 , POLC92H3 , POLC93H3	One full credit from: POLB80H3 , POLB81H3 , POLC92H3 , POLC93H3
Corequisite		
Exclusion	POL326Y	POL326Y
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: POLD02Y3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Research Seminar in International Relations	Senior Research Seminar in Political Science
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	<p>This course provides an opportunity to carry out individual research on an international relations topic. After class readings on the topic under study, research methods and design, and research ethics, students will propose and carry out the research. The seminar provides opportunities to present and discuss their unfolding research.</p> <p>Area of Focus: International Relations</p>	<p>This course provides an opportunity to carry out individual research on a Political Science topic. After class readings on the topic under study, research methods and design, and research ethics, students will propose and carry out their own research project. The seminar provides opportunities to present and discuss their unfolding research, as well as to present the findings of their research.</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	POLB80H3 and POLB81H3 and [1.5 credits at the C-level in POL courses]	POLB80H3 and POLB81H3 and [1.5 credits at the C-level in POL courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15; Restricted to students in the Specialist program in Political Science.	15; Restricted to students in the Specialist program in Political Science.
Note		
Instructor Hours		
Available Online	No	No

Course: POLD92H3 - Compare

Owning Organizations	POL,POLSC	POL,POLSC
Sections	2015 - Political Science	2015 - Political Science
Calendar Title	Survival and Demise of Dictatorships	Survival and Demise of Dictatorships
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will provide an introduction to theories of why some dictatorships survive while others do not. We will explore theories rooted in regime type, resources, state capacity, parties, popular protest, and leadership. We will then examine the utility of these approaches through in-depth examinations of regime crises in Ethiopia, Iran, China, the USSR, and South Africa. Area of Focus: Comparative Politics	This course will provide an introduction to theories of why some dictatorships survive while others do not. We will explore theories rooted in regime type, resources, state capacity, parties, popular protest, and leadership. We will then examine the utility of these approaches through in-depth examinations of regime crises in Ethiopia, Iran, China, the USSR, and South Africa. Area of Focus: Comparative 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
Learning Nature		
Prerequisite	[1.0 credit from: POLB90H3 , POLB91H3 , POLB92H3 , POLB93H3] and [2.0 credits at the C-level in any courses]	[1.0 credit from: POLB90H3 , POLB91H3 , POLB92H3 , POLB93H3] and [2.0 credits at the C-level in any courses]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	25	25
Note		
Instructor Hours		
Available Online	No	No

Course: PSYB10H3 - Compare

Owning Organizations	PSY,PSYSC	PSY,PSYSC
Sections	2015 - Psychology	2015 - Psychology
Calendar Title	Introduction to Social Psychology	Introduction to Social Psychology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Surveys a wide range of phenomena relating to social behaviour. Social Psychology is the study of how feelings, thoughts, and behaviour are influenced by the presence of others. The course is designed to explore social behaviour and to present theory and research that foster its understanding.	Surveys a wide range of phenomena relating to social behaviour. Social Psychology is the study of how feelings, thoughts, and behaviour are influenced by the presence of others. The course is designed to explore social behaviour and to present theory and research that foster its understanding.
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	PSYA01H3 & PSYA02H3	PSYA01H3 and PSYA02H3
Corequisite		
Exclusion	PSY220H	PSY220H
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC03H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Collective Behaviour	Collective Behaviour
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The study of uninstitutionalized group behaviour - crowds, panics, crazes, riots and the genesis of social movements. This course has been designated an Applied Writing Skills Course.	The study of uninstitutionalized group behaviour - crowds, panics, crazes, riots and the genesis of social movements. This course has been designated an Applied Writing Skills 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	None	None
Learning Nature		
Prerequisite	SOCA01H3 and SOCA02H3 and SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3	SOCA01H3 and SOCA02H3 and SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC23H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Practicum in Qualitative Research Methods	Practicum in Qualitative Research Methods
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course provides students with hands-on experience conducting qualitative research. Each student will design and carry out a research project. Students will select their own research questions, review the relevant sociological literature, develop a research design, and conduct qualitative research, analyze, write up and present their findings. This course has been designated an Applied Writing Skills Course.	This course provides students with hands-on experience conducting qualitative research. Each student will design and carry out a research project. Students will select their own research questions, review the relevant sociological literature, develop a research design, and conduct qualitative research, analyze, write up and present their findings. This course has been designated an Applied Writing Skills 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	None	None
Learning Nature		
Prerequisite	10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and a cumulative GPA of at least 2.7	10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and a cumulative GPA of at least 2.7
Corequisite		
Exclusion	SOC302H, (SOCD23H3)	SOC302H, (SOCD23H3)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC30H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Criminal Behaviour	Criminal Behaviour
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The young figure prominently in people's views about, and fears of, crime. This course examines definitions of crime, how crime problems are constructed and measured. It looks at schools and the street as sites of criminal behaviour, and considers how we often react to crime in the form of moral panics. This course has been designated an Applied Writing Skills Course.	The young figure prominently in people's views about, and fears of, crime. This course examines definitions of crime, how crime problems are constructed and measured. It looks at schools and the street as sites of criminal behaviour, and considers how we often react to crime in the form of moral panics. This course has been designated an Applied Writing Skills 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	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3
Corequisite		
Exclusion	SOC306Y	SOC306Y
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC31H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - 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	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. This course has been designated an Applied Writing Skills Course.	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. This course has been designated an Applied Writing Skills 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	10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and [STAB22H3 or (SOCB06H3)] and a cumulative GPA of at least 2.7	10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and [STAB22H3 or (SOCB06H3)] and a cumulative GPA of at least 2.7
Corequisite		
Exclusion	SOC300H, (SOCD31H3)	SOC300H, (SOCD31H3)
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: SOCC34H3 - Compare

Owning Organizations	SOC,SOCS	SOC,SOCS
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Migrations & Transnationalisms	Migrations & Transnationalisms
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Examines the relationship between contemporary modes of international migration and the formation of transnational social relations and social formations. Considers the impact of trans-nationalisms on families, communities, nation-states, etc. This course has been designated an Applied Writing Skills Course.	Examines the relationship between contemporary modes of international migration and the formation of transnational social relations and social formations. Considers the impact of trans-nationalisms on families, communities, nation-states, etc. This course has been designated an Applied Writing Skills 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	None	None
Learning Nature		
Prerequisite	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and [[SOCB42H3 and SOCB43H3] or IDSB01H3]	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and [[SOCB42H3 and SOCB43H3] or IDSB01H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC40H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Contemporary Sociological Theory	Contemporary Sociological Theory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course surveys key topics in contemporary sociological theory. The development of sociological theory from the end of World War II to the late 1960's. Special attention is devoted to the perspectives of Functionalism, Conflict Theory and Symbolic Interactionism. This course has been designated an Applied Writing Skills Course.	This course surveys key topics in contemporary sociological theory. The development of sociological theory from the end of World War II to the late 1960's. Special attention is devoted to the perspectives of Functionalism, Conflict Theory and Symbolic Interactionism. This course has been designated an Applied Writing Skills 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	None	None
Learning Nature		
Prerequisite	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3	SOCA01H3 and SOCA02H3 and [SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3
Corequisite		
Exclusion	(SOCC05Y3)	(SOCC05Y3)
Recommended Preparation		
Enrolment Limits	60	60
Note		
Instructor Hours		
Available Online	No	No

Course: SOCC58H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Global Transformations: Politics, Economy and Society	Global Transformations: Politics, Economy and Society
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A sociological examination of contemporary global transformations including changing social, economic, and political conditions. Topics examined may include the shifting nature of state-society relations in a global context; the emergence of globally-integrated production, trade and financial systems; and the dynamics of local and transnational movements for global social change.	A sociological examination of contemporary global transformations including changing social, economic, and political conditions. Topics examined may include the shifting nature of state-society relations in a global context; the emergence of globally-integrated production, trade and financial systems; and the dynamics of local and transnational movements for global social change. <u>This course has been designated as a Writing Skills course.</u>
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	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or [(SOCB40H3 and (SOCB41H3))] and [SOCB42H3 and SOCB43H3]]	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or [(SOCB40H3 and (SOCB41H3))] and [SOCB42H3 and SOCB43H3]]
Corequisite		
Exclusion	(SOCB27H3), SOC236H	(SOCB27H3), SOC236H
Recommended Preparation		
Enrolment Limits	60	60
Note	<u>This course has been designated as a Writing Skills course.</u>	
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available

Online

No

No

Course: SOCD20H3 - Compare

Owning Organizations	SOC,SOCS	SOC,SOCS
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Senior Seminar: Social Change and Gender Relations in Chinese Societies	Advanced Seminar: Social Change and Gender Relations in Chinese Societies
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research. Same as GASD20H3	This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research. Same as GASD20H3
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	[SOCA01H3 and SOCA02H3 and SOCB05H3 and one C-level course in SOC] OR [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]	[SOCA01H3 and SOCA02H3 and SOCB05H3 and one C-level course in SOC] OR [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]
Corequisite		
Exclusion	GASD20H3	GASD20H3
Recommended Preparation	GASB20H3 and GASC20H3	GASB20H3 and GASC20H3
Enrolment Limits	20	20
Note		
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: SOCD21H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Immigrant Scarborough	Immigrant Scarborough
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course will teach students how to conduct in-depth, community-based research on the social, political, cultural and economic lives of immigrants. Students will learn how to conduct qualitative research including participant observation, semi-structured interviews and focus groups. Students will also gain valuable experience linking hands-on research to theoretical debates about migration, transnationalism and multicultural communities.	This course will teach students how to conduct in-depth, community-based research on the social, political, cultural and economic lives of immigrants. Students will learn how to conduct qualitative research including participant observation, semi-structured interviews and focus groups. Students will also gain valuable experience linking hands-on research to theoretical debates about migration, transnationalism and multicultural communities.
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	SOCA01H3 and SOCA02H3 and SOCB05H3 and [SOCC23H3 or SOCC31H3]	SOCA01H3 and SOCA02H3 and SOCB05H3 and [SOCC23H3 or SOCC31H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	30	30
Note		For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.utsoc.utoronto.ca/sociology/
Instructor		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

Hours

Available No

Online

No

Course: SOCD42H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Advanced Seminar in Sociological Theory	Advanced Seminar in Sociological Theory
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Exploration of significant topics of interest in contemporary sociological theory. Designed for and restricted to students enrolled in the final year of the Specialist Program in Sociology.	This course offers an indepth exploration of significant topics in contemporary and/or sociological theory.
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	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or ((SOCB40H3) and (SOCB41H3))] and [STAB22H3 or (SOCB06H3)] and [1.0 credit from the following: (SOCB27H3), SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] and SOCC40H3	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or ((SOCB40H3) and (SOCB41H3))] and [STAB22H3 or (SOCB06H3)] and [1.0 credit from the following: (SOCB27H3), SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] and SOCC40H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.uts.utoronto.ca/sociology/
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: SOCD44H3 - Compare

Owning Organizations	SOC,SOCSC	SOC,SOCSC
Sections	2015 - Sociology	2015 - Sociology
Calendar Title	Advanced Seminar on Issues in Contemporary Sociology	Advanced Seminar on Issues in Contemporary Sociology
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Exploration of current debates and controversies surrounding recent scholarly developments.	Exploration of current debates and controversies surrounding recent scholarly developments in Sociology.
Print Description	Same as Full Description	Same as Full Description
Breadth Requirement		
Experiential Learning - Research	None	None
Experiential Learning - Other		
Learning Nature		
Prerequisite	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and [STAB22H3 or (SOCB06H3)] and [1.0 credit from the following: (SOCB27H3), SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3] and SOCC40H3	[SOCA01H3 and SOCA02H3] and [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and [STAB22H3 or (SOCB06H3)] and [1.0 credit from the following: (SOCB27H3), SOCB30H3 , SOCB42H3 , SOCB43H3 , SOCB47H3] and SOCC40H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.uts.utoronto.ca/sociology/
Instructor Hours		

Online Calendar

<https://calendaradmin.rosi.utoronto.ca/calendar/pages/reports/repor...>

**Available
Online**

No

No

Course: VPMA70H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble Ia	Concert Choir Ia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours Available Online	No	No

Course: VPMA71H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble 1b	Concert Choir 1b
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMA70H3 The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMA70H3 The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMA70H3	VPMA70H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMA73H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble Ia	Concert Band Ia
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	(VPMA92H3)	(VPMA92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMA74H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble 1b	Concert Band 1b
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMA73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMA73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMA73H3	VPMA73H3
Corequisite		
Exclusion	(VPMA92H3)	(VPMA92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMA90H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - 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. Online music placement test required.	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	Royal Conservatory Grade II Rudiments or equivalent; online music placement test required.	Royal Conservatory Grade II Rudiments or equivalent; online music placement test required.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMA95H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Elementary Musicianship I	Elementary Musicianship I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A practical introduction to musicianship and music rudiments through the development of basic vocal or instrumental techniques and an emphasis on aural skills.	A practical introduction to musicianship and music rudiments through the development of basic vocal or instrumental techniques and an emphasis on aural skills. This course is open to students with no musical training and background. It cannot be counted toward the requirements for Music programs.
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		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB70H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble Ila	Concert Choir Ila
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMA71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMA71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMA71H3	VPMA71H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB71H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble IIb	Concert Choir IIb
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMB70H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMB70H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMB70H3	VPMB70H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB73H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble Ila	Concert Band Ila
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMA74H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMA74H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMA74H3 or (VPMA92H3)	VPMA74H3 or (VPMA92H3)
Corequisite		
Exclusion	(VPMB92H3)	(VPMB92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB74H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble IIb	Concert Band IIb
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMB73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMB73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMB73H3	VPMB73H3
Corequisite		
Exclusion	(VPMB92H3)	(VPMB92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMB95H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Elementary Musicianship II	Elementary Musicianship II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of Musicianship I, preparing students for further theoretical studies and/or participation in one of the performance ensembles (Concert Choir, Concert Band, Jazz Choir, Jazz Band, String Ensemble).	A continuation of Musicianship I, offering students further opportunities to develop their musicianship. This course cannot be counted toward the requirements for Music programs.
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	VPMA95H3	VPMA95H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC70H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble IIIa	Concert Choir IIIa
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMB71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMB71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMB71H3	VPMB71H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC71H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Vocal Ensemble IIIb	Concert Choir IIIb
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMC70H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMC70H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMC70H3	VPMC70H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC73H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble IIIa	Concert Band IIIa
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMB74H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMB74H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMB74H3 or (VPMB92H3)	VPMB74H3 or (VPMB92H3)
Corequisite		
Exclusion	(VPMC92H3)	(VPMC92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPMC74H3 - Compare

Owning Organizations	VPM,ACMSC	VPM,ACMSC
Sections	2015 - Music and Culture	2015 - Music and Culture
Calendar Title	Instrumental Ensemble IIIb	Concert Band IIIb
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A continuation of VPMC73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.	A continuation of VPMC73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
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	VPMC73H3	VPMC73H3
Corequisite		
Exclusion	(VPMC92H3)	(VPMC92H3)
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA71H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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		
Recommended Preparation		
Enrolment Limits	15. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA73H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Video I	Video I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	An introduction to the basic principles of video shooting and editing as well as an investigation into different conceptual strategies of video art. The course will also provide an introduction to the history of video art.	An introduction to the basic principles of video shooting and editing as well as an investigation into different conceptual strategies of video art. The course will also provide an introduction to the history of video 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
Prerequisite		
Corequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Exclusion	VIS202H	VIS202H
Recommended Preparation		
Enrolment Limits	15. Preference will be given to students in Arts Management Co-op, Humanities Co-op, Studio and VPA specialist programs.	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSA74H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Foundations in Digital Studio Practice	Digital Studio
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 selected 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
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB63H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Sculpture Concepts	Sculpture and the Everyday
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Contemporary sculptural practice is a diverse and expanded field that covers a range of strategies that confound traditional definitions of sculpture and blur the boundaries with other contemporary art forms. We will explore key ideas that transform sculpture into three-dimensional practices that embrace time, found material, architecture and audience interaction.	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 Learning Nature	None	None
Prerequisite	VPSA62H3 & VPSA63H3 & 0.5 full credit in Studio at the A-level.	VPSA62H3 & VPSA63H3 & 0.5 full credit in Studio at the A-level.
Corequisite		
Exclusion	VIS204H	VIS204H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB71H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Books and Multiples	Artist Multiples
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	Exploring the production, history and use of artists' books, students will focus on visuals and text, incorporating low-tech and printmaking approaches to multiples.	Artist multiples are small, limited edition artworks that include sculptures, artist books, mass-produced ephemera such as posters, postcards and small objects. Students will explore the production and history of 2D and 3D works using a variety of media and approaches. This course is about both making and concepts.
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	VPSA70H3 & [VPSA61H3 or VPSA71H3 or (VPSA72H3) or VPSA74H3]	VPSA70H3 & [VPSA61H3 or VPSA71H3 or (VPSA72H3) or VPSA74H3]
Corequisite		
Exclusion	VIS321H	VIS321H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB76H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Video II	Video II
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course is designed to provide a history of contemporary video art production. The course will familiarize students with more advanced methods of production and contemporary video works. Classes will include technical instruction, screenings and discussions of tapes, critiques, written assignments and assigned readings.	Video II builds on skills developed in Video I and explores advanced video techniques including chromakey, using grip and mounts, sound design for video and installation techniques involving projection and digital screens. Students will examine current issues in moving image and media through screenings and 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	None	None
Learning Nature		
Prerequisite	VPSA73H3	VPSA73H3
Corequisite		
Exclusion	VIS302H	VIS302H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB77H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Introduction to Performance Art	Performance Art
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	This course covers the history and practice of performance art. Students will employ contemporary performance strategies such as duration, ritual, repetition, intervention, tableau vivant, endurance and excess of materials in their projects. We will also study the relationship of performance to other art disciplines and practices such as theatre and sculpture.	This course covers the history and practice of performance art. Students will employ contemporary performance strategies such as duration, ritual, repetition, intervention, tableau vivant, endurance and excess of materials in their projects. We will also study the relationship of performance to other art disciplines and practices such as theatre and sculpture.
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] or [VPDA10H3 & VPDA11H3] or [(VPDA01H3) & (VPDA02H3)]	[VPSA62H3 & VPSA63H3] or [VPDA10H3 & VPDA11H3] or [(VPDA01H3) & (VPDA02H3)]
Corequisite		
Exclusion	VIS208H	VIS208H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB80H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Digital Studio Projects	Digital Studio
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	None	None
Learning Nature		
Prerequisite	VPSA74H3	VPSA74H3
Corequisite		
Exclusion	VIS318H	VIS318H
Recommended Preparation	(VPSA72H3)	(VPSA72H3)
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSB88H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Introduction to 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
Prerequisite	VPSA62H3 and VPSA63H3	VPSA62H3 and VPSA63H3
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours Available Online	No	No

Course: VPSB89H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - Studio
Calendar Title	Introduction to Digital Animation	Digital Animation I
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	A non-traditional course in the digital production of non-analog, two-dimensional animation through the use of computer-based drawing, painting, photography and collage. Students will learn design strategies, experimental story lines, sound mixing, and video transitions to add pace, rhythm, and movement to time based, digital art projects.	A non-traditional course in the digital production of non-analog, two-dimensional animation through the use of computer-based drawing, painting, photography and collage. Students will learn design strategies, experimental story lines, sound mixing, and video transitions to add pace, rhythm, and movement to time based, digital 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	None	None
Prerequisite	VPSA74H3	VPSA74H3
Corequisite		
Exclusion		
Recommended Preparation	VPSA70H3	VPSA70H3
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC53H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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	None	None
Learning Nature		
Prerequisite	VPHA46H3 and VPSB86H3 and an additional 0.5 credit at the B-level in Studio	VPHA46H3 and VPSB86H3 and an additional 0.5 credit at the B-level in Studio courses
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	2015 - Studio	2015 - 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 Learning Nature	None	None
Prerequisite	VPHA46H3 and VPSB62H3 and an additional 0.5 credit at the B-level in Studio	VPHA46H3 and VPSB62H3 and an additional 0.5 credit at the B-level in Studio courses
Corequisite		
Exclusion	VIS301H	VIS301H
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: VPSC70H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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, WiFi, GPS, ubiquitous computing, data mining, rfid, biotech, kinetic art, 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
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].
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	2015 - Studio	2015 - Studio
Calendar Title	Digital Animation 	Digital Animation 
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 Learning Nature	None	None
Prerequisite	VPSB89H3	VPSB89H3
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	2015 - Studio	2015 - 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 practical and theoretical study 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		
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, VIS410H	VIS401H, VIS402H, VIS403H, VIS404H, VIS410H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSD56H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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	VIS326H, VIS401H, VIS402H, VIS403H, VIS404H
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSD57H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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
Recommended Preparation		
Enrolment Limits	20	20
Note		
Instructor Hours		
Available Online	No	No

Course: VPSD58H3 - Compare

Owning Organizations	VPS,ACMSC	VPS,ACMSC
Sections	2015 - Studio	2015 - 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
Prerequisite	1.5 full credits at the C-level in Studio.	1.5 full credits at the C-level in Studio.
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits	15	15
Note		
Instructor Hours		
Available Online	No	No

Course: WSTB05H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2015 - Women's and Gender Studies	2015 - Women's and Gender Studies
Calendar Title	Methods of Research and Inquiry 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	Various methods of research and data collection in Women's and Gender Studies with an interdisciplinary and cross-cultural perspective will be examined. Issues of 'knowledge' and interpretation will be explored as will fundamentals of conducting research. There is an experiential learning component to the course.	Various methods of research and data collection in Women's and Gender Studies with an interdisciplinary and cross-cultural perspective will be examined. Issues of 'knowledge' and interpretation will be explored as will fundamentals of conducting research. There is an experiential learning component to the 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 Corequisite Exclusion	WSTA01H3 & [WSTA03H3 or (WSTA02H3)]	WSTA01H3 & [WSTA03H3 or (WSTA02H3)]
Recommended Preparation		
Enrolment Limits		
Note		
Instructor Hours		
Available Online	No	No

Course: WSTC10H3 - Compare

Owning Organizations	WST,HCSSC	WST,HCSSC
Sections	2015 - Women's and Gender Studies	2015 - Women's and Gender Studies
Calendar Title	Women and Development	Women and Development
ROSI Title	Same as Calendar Title	Same as Calendar Title
Full Description	How development affects, and is affected by, women around the world. Topics may include labour and economic issues, food production, the effects of technological change, women organizing for change, and feminist critiques of traditional development models.	How development affects, and is affected by, women around the world. Topics may include labour and economic issues, food production, the effects of technological change, women organizing for change, and feminist critiques of traditional development models.
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	[WSTA01H3] & [WSTA03H3] or (WSTA02H3)]] or [WSTA01H3] & [WSTA03H3] or (WSTA02H3)]] or [IDSB01H3] or [IDSB02H3]	[WSTA01H3] & [WSTA03H3] or (WSTA02H3)]] or [IDSB01H3] or [IDSB02H3]
Corequisite		
Exclusion		
Recommended Preparation		
Enrolment Limits		
Note		Topics vary from year to year. Check the Women's and Gender Studies website at http://www.utsoc.utoronto.ca/hcs/womens-and-gender-studies for current offerings.
Instructor Hours Available Online	No	No

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OFFICE OF THE CAMPUS COUNCIL

FOR INFORMATION

PUBLIC

OPEN SESSION

TO: UTSC Academic Affairs Committee

SPONSOR: Dean and Vice-Principal (Academic),
Rick Halpern

CONTACT INFO: vpdean@utsc.utoronto.ca

PRESENTER: Vice-Dean, Graduate Education and Program Development
William Gough

CONTACT INFO: vdeangrad@utsc.utoronto.ca

DATE: Tuesday, February 10, 2015

AGENDA ITEM: 7

ITEM IDENTIFICATION:

Editorial Changes to Courses submitted by the Graduate Department of Psychological Clinical Science

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] (February 10, 2015)**

PREVIOUS ACTION TAKEN:

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

HIGHLIGHTS:

The Office of the Dean and Vice-Principle (Academic) reports, for information, all non-curricular editorial changes to graduate programs and courses.

2015-16 Graduate Curriculum, Editorial Changes –for information

Non-curricular editorial changes include changes to course titles. The Department of Psychological Clinical Science is changing the titles of five of its courses: CPS1102H, CPS1103H, CPS1701H, CPS1702H, and CPS1802H.

FINANCIAL IMPLICATIONS:

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

RECOMMENDATION:

This item is presented for information only

DOCUMENTATION PROVIDED:

1. Minor Modification Proposal – Changes to Existing Graduate Courses: CPS1102H
2. Minor Modification Proposal – Changes to Existing Graduate Courses: CPS1103H
3. Minor Modification Proposal – Changes to Existing Graduate Courses: CPS1701H
4. Minor Modification Proposal – Changes to Existing Graduate Courses: CPS1702H
5. Minor Modification Proposal – Changes to Existing Graduate Courses: CPS1802H



University of Toronto Minor Modification Proposal – New Graduate Courses, or Changes to Existing Graduate Courses

This template should be used to: create a new graduate course; reactivate a closed/deactivated course; rename an existing course; renumber an existing course; etc. A complete list of all course changes is available on the [Vice-Provost, Academic Programs website](#).

If you have questions while you are filling out this document, please contact your Dean’s Office.

Graduate Department /Unit/Centre/Institute:	Psychological Clinical Science
Faculty / Academic Division:	UTSC
Dean’s Office contact:	Annette Knott, aknott@utsc.utoronto.ca

Part 1: ROSI *Please complete this section. The data will be used to complete the ROSI record.*

<i>New Course – fill out all fields</i>	
Course Designator and Number:	
FCE Weight:	
Full Course Title for Transcript:	
Abbreviated Title:	
Available via Student Web Service:	
Course Type:	
Online Course:	
Required Course:	
Grading Scale:	
Course Prerequisites, if yes please list:	
Course Credit Exclusions, if yes please list:	
<i>Or Changes to an Existing Course (require unit level approval only) – fill out applicable fields</i>	
Current Course Designator and Number (required):	<i>CPS1102H</i>
Deactivated Course designator, number and weight:	
Splitting or Amalgamating Courses:	
New Designator and Number:	
New/Renamed Full Course Title for Transcript:	<i>Statistical Techniques I</i>
New/Renamed Abbreviated Title:	<i>Statistical Techniques I</i>
New FCE Weight:	
Change to Grading Scale (Letter Grades or CR/NCR):	
Change to Course Type:	

Effective Date

September 1, 2015

Part 2: Other Changes to Existing Courses

Optional Field – This section may be used to describe other types of changes to existing courses your Faculty/Division tracks. These changes are not posted to the GCT.

n/a

Part 3: New Course Documentation

For Faculty / Divisional approval of new courses, please append the approved course documentation, or complete the template below.

Course Description

n/a

Academic Rationale

n/a

Learning Outcomes (if applicable)

n/a

Similarity/Overlap with other Courses & Consultation

n/a

Resource Requirements (if required)

none

Governance Approval

Unit Sign-Off	Executive Committee, November 27, 2014
Faculty/Division Council (or delegated body) approval, if applicable	UTSC Academic Affairs Committee – for information



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Faculty / Academic Division:	UTSC
Dean’s Office contact:	Annette Knott, aknott@utsc.utoronto.ca

Part 1: ROSI *Please complete this section. The data will be used to complete the ROSI record.*

<i>New Course – fill out all fields</i>	
Course Designator and Number:	
FCE Weight:	
Full Course Title for Transcript:	
Abbreviated Title:	
Available via Student Web Service:	
Course Type:	
Online Course:	
Required Course:	
Grading Scale:	
Course Prerequisites, if yes please list:	
Course Credit Exclusions, if yes please list:	
<i>Or Changes to an Existing Course (require unit level approval only) – fill out applicable fields</i>	
Current Course Designator and Number (required):	<i>CPS1103H</i>
Deactivated Course designator, number and weight:	
Splitting or Amalgamating Courses:	
New Designator and Number:	
New/Renamed Full Course Title for Transcript:	<i>Statistical Techniques II</i>
New/Renamed Abbreviated Title:	<i>Statistical Techniques II</i>
New FCE Weight:	
Change to Grading Scale (Letter Grades or CR/NCR):	
Change to Course Type:	

Effective Date

September 1, 2015

Part 2: Other Changes to Existing Courses

Optional Field – This section may be used to describe other types of changes to existing courses your Faculty/Division tracks. These changes are not posted to the GCT.

n/a

Part 3: New Course Documentation

For Faculty / Divisional approval of new courses, please append the approved course documentation, or complete the template below.

Course Description

n/a

Academic Rationale

n/a

Learning Outcomes (if applicable)

n/a

Similarity/Overlap with other Courses & Consultation

n/a

Resource Requirements (if required)

none

Governance Approval

Unit Sign-Off	Executive Committee, November 27, 2014
Faculty/Division Council (or delegated body) approval, if applicable	UTSC Academic Affairs Committee – for information



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Faculty / Academic Division:	UTSC
Dean’s Office contact:	Annette Knott, aknott@utsc.utoronto.ca

Part 1: ROSI *Please complete this section. The data will be used to complete the ROSI record.*

<i>New Course – fill out all fields</i>	
Course Designator and Number:	
FCE Weight:	
Full Course Title for Transcript:	
Abbreviated Title:	
Available via Student Web Service:	
Course Type:	
Online Course:	
Required Course:	
Grading Scale:	
Course Prerequisites, if yes please list:	
Course Credit Exclusions, if yes please list:	
<i>Or Changes to an Existing Course (require unit level approval only) – fill out applicable fields</i>	
Current Course Designator and Number (required):	CPS1701H
Deactivated Course designator, number and weight:	
Splitting or Amalgamating Courses:	
New Designator and Number:	
New/Renamed Full Course Title for Transcript:	Psychological Assessment I
New/Renamed Abbreviated Title:	Psychological Assessment I
New FCE Weight:	
Change to Grading Scale (Letter Grades or CR/NCR):	
Change to Course Type:	

Effective Date

September 1, 2015

Part 2: Other Changes to Existing Courses

Optional Field – This section may be used to describe other types of changes to existing courses your Faculty/Division tracks. These changes are not posted to the GCT.

n/a

Part 3: New Course Documentation

For Faculty / Divisional approval of new courses, please append the approved course documentation, or complete the template below.

Course Description

n/a

Academic Rationale

n/a

Learning Outcomes (if applicable)

n/a

Similarity/Overlap with other Courses & Consultation

n/a

Resource Requirements (if required)

none

Governance Approval

Unit Sign-Off	Executive Committee, November 27, 2014
Faculty/Division Council (or delegated body) approval, if applicable	UTSC Academic Affairs Committee – for information



University of Toronto Minor Modification Proposal – New Graduate Courses, or Changes to Existing Graduate Courses

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Faculty / Academic Division:	UTSC
Dean’s Office contact:	Annette Knott, aknott@utsc.utoronto.ca

Part 1: ROSI *Please complete this section. The data will be used to complete the ROSI record.*

<i>New Course – fill out all fields</i>	
Course Designator and Number:	
FCE Weight:	
Full Course Title for Transcript:	
Abbreviated Title:	
Available via Student Web Service:	
Course Type:	
Online Course:	
Required Course:	
Grading Scale:	
Course Prerequisites, if yes please list:	
Course Credit Exclusions, if yes please list:	
<i>Or Changes to an Existing Course (require unit level approval only) – fill out applicable fields</i>	
Current Course Designator and Number (required):	<i>CPS1702H</i>
Deactivated Course designator, number and weight:	
Splitting or Amalgamating Courses:	
New Designator and Number:	
New/Renamed Full Course Title for Transcript:	<i>Psychological Assessment II</i>
New/Renamed Abbreviated Title:	<i>Psychological Assessment II</i>
New FCE Weight:	
Change to Grading Scale (Letter Grades or CR/NCR):	
Change to Course Type:	

Effective Date

September 1, 2015

Part 2: Other Changes to Existing Courses

Optional Field – This section may be used to describe other types of changes to existing courses your Faculty/Division tracks. These changes are not posted to the GCT.

n/a

Part 3: New Course Documentation

For Faculty / Divisional approval of new courses, please append the approved course documentation, or complete the template below.

Course Description

n/a

Academic Rationale

n/a

Learning Outcomes (if applicable)

n/a

Similarity/Overlap with other Courses & Consultation

n/a

Resource Requirements (if required)

none

Governance Approval

Unit Sign-Off	Executive Committee, November 27, 2014
Faculty/Division Council (or delegated body) approval, if applicable	UTSC Academic Affairs Committee – for information



University of Toronto Minor Modification Proposal – New Graduate Courses, or Changes to Existing Graduate Courses

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Dean’s Office contact:	Annette Knott, aknott@utsc.utoronto.ca

Part 1: ROSI *Please complete this section. The data will be used to complete the ROSI record.*

<i>New Course – fill out all fields</i>	
Course Designator and Number:	
FCE Weight:	
Full Course Title for Transcript:	
Abbreviated Title:	
Available via Student Web Service:	
Course Type:	
Online Course:	
Required Course:	
Grading Scale:	
Course Prerequisites, if yes please list:	
Course Credit Exclusions, if yes please list:	
<i>Or Changes to an Existing Course (require unit level approval only) – fill out applicable fields</i>	
Current Course Designator and Number (required):	<i>CPS1802H</i>
Deactivated Course designator, number and weight:	
Splitting or Amalgamating Courses:	
New Designator and Number:	
New/Renamed Full Course Title for Transcript:	<i>Applied Interventions in Clinical Psychology</i>
New/Renamed Abbreviated Title:	<i>Applied Interventions Clin Psy</i>
New FCE Weight:	
Change to Grading Scale (Letter Grades or CR/NCR):	
Change to Course Type:	

Effective Date

September 1, 2015

Part 2: Other Changes to Existing Courses

Optional Field – This section may be used to describe other types of changes to existing courses your Faculty/Division tracks. These changes are not posted to the GCT.

n/a

Part 3: New Course Documentation

For Faculty / Divisional approval of new courses, please append the approved course documentation, or complete the template below.

Course Description

n/a

Academic Rationale

n/a

Learning Outcomes (if applicable)

n/a

Similarity/Overlap with other Courses & Consultation

n/a

Resource Requirements (if required)

none

Governance Approval

Unit Sign-Off	Executive Committee, November 27, 2014
Faculty/Division Council (or delegated body) approval, if applicable	UTSC Academic Affairs Committee – for information

UNIVERSITY OF TORONTO

THE UNIVERSITY OF TORONTO SCARBOROUGH CAMPUS COUNCIL

REPORT NUMBER 9 OF THE ACADEMIC AFFAIRS COMMITTEE

January 8, 2015

To the University of Toronto Scarborough Campus Council, University of Toronto Scarborough,

Your Committee reports that it met on Thursday, January 8, 2015 at 4:00 p.m. in the Council Chamber, Arts and Administration Building, with the following members present:

Present:

Ms Kathy Fellowes (Chair)
Dr. Christopher Ollson (Vice Chair)
Professor Bruce Kidd, Vice-
President and Principal
Professor Rick Halpern Vice-
Principal and Dean (Academic)
Professor Malcolm Campbell, Vice
Principal Research
Ms Maryam Ali
Dr. Corinne Beauquis
Professor Christine Bolus-Reichert
Professor Nick Cheng
Dr. Curtis Cole
Professor Suzanne Erb
Professor David J. Fleet
Professor John A. Hannigan
Professor Clare Hasenkampf
Professor Matthew J. Hoffmann
Mr. Jerry Yu Jien
Professor Madhavi Kale
Mr. John Kapageridis
Ms Whitney Kemble
Dr. Elaine Khoo
Dr. Sarah D. King
Professor Patricia Landolt
Ms Nancy Lee
Mr. Andrew Leung
Professor Nathan R. Lovejoy
Professor Andrew C. Mason
Mr. Moataz S. Mohamed
Ms Susan Murray

Ms Victoria Owen
Professor Mary T. Silcox
Professor Grace Skogstad
Mr. Selim Younes
Professor David Zweig

Non-Voting Assessors:

Ms Jennifer Bramer
Ms Annette Knott
Mr. Desmond Pouyat

Secretariat:

Mr. Anwar Kazimi
Ms Rena Parsan

Regrets:

Mr. Syed W. Ahmed
Dr. Johann Bayer
Professor William R. Bowen
Professor George S. Cree
Professor Neal Dolan
Professor William A. Gough
Professor Benj Hellie
Ms Noor Khan
Professor Heinz-Bernhard Kraatz
Professor Philip Kremer
Professor Michael J. Lambek
Dr. Karen Lyda McCrindle
Professor John Robert Miron
Professor Matthias Niemeier
Mr. George Quan Fun
Ms Charmaine Louise C. Ramirez

REPORT NUMBER 9 OF THE UTSC ACADEMIC AFFAIRS COMMITTEE- January 8, 2015

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Dr. Jayeeta Sharma
Professor Andre Sorensen
Ms Tisha Tan

Ms Lynn Tucker
Mr. Lukas Zibaitis

In attendance:

Ms Lesly Lewis, Assistant Dean, Office of the Dean and Vice-Principal (Academic)

1. Chair's Remarks

The Chair welcomed members to the meeting. She also welcomed Professor Matthew Hoffmann, Ms Nancy Lee, Ms Susan Murray, and Professor Grace Skodstad who participated in the meeting by teleconference, and introduced Mr. Anwar Kazimi, Assistant Secretary of the Governing Council, who was filling in for Ms Amorell Saunders N'Daw, Director of Governance, UTSC.

On behalf of members, the Chair congratulated Professor Bruce Kidd on his recent appointment as Vice-President and Principal of UTSC.

2. Assessors' Reports

Professor Rick Halpern, Dean and Vice-Principal (Academic) reported that there were business items from his portfolio that would be considered by the Committee at future meetings. He invited Professor Mark Schmuckler, Vice-Dean, Undergraduate, to provide the Committee with a summary. The summary included the following major points:

A. Proposed Academic Changes Requiring Approval from the UTSC Academic Affairs Committee

The following proposed academic changes would require governance approval because changes to academic regulations fall under the purview of the Academic Affairs Committee according to its Terms of Reference.

- **The Propaedeutic Rule-**
If a student took a course in which he or she had not taken the specific prerequisite the student could not take the prerequisite course for academic credit at a later date. Professor Schmuckler reported that the propaedeutic rule unfairly disadvantaged some students and recommended that it be eliminated for that reason. He added that neither the Faculty of Arts and Science (FAS) or the University of Toronto Mississauga (UTM) applied this rule.
- **Combinations of Programs and Degrees Conferred-**
Professor Schmuckler reported that changes to academic regulations regarding the combination of programs and type of degrees would be brought forward for approval

REPORT NUMBER 9 OF THE UTSC ACADEMIC AFFAIRS COMMITTEE- January 8, 2015

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so that the type of degree was only determined by a Specialist or Major program. Professor Schmuckler added that the current regulation allowed for a student to complete a Honours BA or BSc based on the nature of a Minor program. He added that the proposed academic regulations would be aligned with those of FAS and UTM.

B. Proposed Academic Changes to be Implemented without Governance Approval from the UTSC Academic Affairs Committee

The following proposed academic changes would not require governance approval because they were administrative in nature.

- **Combining Co-op Major Programs with Other Major Programs-**
Professor Schmuckler reported that the current practice at UTSC had been to combine Co-op Major programs with other Major programs, which that this practice had come into question by some academic units. Consultation with the Arts and Science Co-op Office indicated support for combining Co-op Major programs with other Minor programs. Professor Schmuckler added that the Office of the Dean and Vice-Principal (Academic) would revise the Academic Calendar to allow for Major Co-op programs to be combined with Minor programs effective in the 2015-16 academic year.
- **Changing Course-level Designators from Letters to Numbers-**
Professor Schmuckler reported that courses at UTSC were identified using the letters- A,B,C,D, while other undergraduate divisions at the University identified courses using numbers- 100, 200,300, and 400. With the move from the Repository of Student Information (ROSI) to the new Next Generation Student Information System (NGSIS), the use of different designators from the other undergraduate divisions would become problematic for coding in the system. He reported that the change would likely be implemented by the 2016-17 academic year.

The Chair thanked Professor Halpern and Professor Schmuckler for their Assessors' report.

3. Strategic Topic: Sport and Research: Opportunities Beyond Pan-Am

The Chair introduced and invited Professor Malcolm Campbell, Vice-Principal, Research, to present the strategic topic. Professor Campbell's presentation, which highlighted sport and research at UTSC and its connection with the broader community, included a comprehensive description of the Toronto Pan-Am Sports Centre (TPASC) and addressed the following major points:

Research- the ability to leverage UTSC's proximity to the Canadian Sports Institute of Ontario (CSIO) to talk about research opportunities in the physical and social sciences. Faculty who have already begun to explore research partnerships with the CSIO included:

REPORT NUMBER 9 OF THE UTSC ACADEMIC AFFAIRS COMMITTEE- January 8, 2015

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Professor Ken Welch (stress physiology), Professor David Fleet (human motion) and Professor Rene Harrison (cell biology).

- Academic Opportunities-using TPASC and the CSIO for experiential learning, embedded curriculum, and to attract athletic scholars to UTSC.
- Community Engagement- the importance of sharing discoveries made at UTSC with the broader community to improve the lives of those living in the eastern part of the GTA.

In response to a question from a member, Professor Campbell explained that UTSC paid the CSIO for use of equipment or facilities by UTSC faculty and students.

A member asked whether there were any plans to hire new faculty who could take advantage of the TPASC and the CSIO, and Professor Campbell replied that the Department Chairs needed to express interest and initiate dialogue with the Office of the Dean and Vice-Principal (Academic) in terms of hiring new faculty.

In response to a question as to whether or not athletic scholars would be eligible for financial aid, Professor Campbell affirmed that they would be eligible..

4. External Review of the UTSC Academic Portfolio

The Chair introduced and invited Professor Halpern to discuss the recent review of the UTSC Academic Portfolio. Professor Halpern advised the Committee that, in his view, the review was positive and balanced. He explained that the Vice-President and Provost, Professor Cheryl Regehr and the previous Vice-President and Principal, Professor Franco Vaccarino had initiated the review of the Academic Portfolio. The review was conducted to assess the academic health of the campus, and not the current leadership. Professor Halpern provided a brief summary of the finding from the review, which included the following major points:

- **Curriculum and Program Delivery-** The reviewers raised the issue of depth versus breadth in curriculum, which Professor Halpern reported was a challenge for many departments. It was suggested that program offerings be reviewed for deeper disciplinary emphasis. The reviewers were impressed with the integration of librarians into educational developments, particularly at the department level.
- **Students-** The reviewers commented on the need for improved campus-based services for students, which included study space. They also observed challenges in the quality of the student population and noted special challenges in addressing varying levels of English competency.
- **Relationships-** The reviewers commented on the differing levels of engagement between UTSC units and the graduate units on the St. George campus. Professor Halpern reported that as the Tri-Campus system evolved, he expected that these issues would likely begin to dissipate.
- **Resources & Planning-** The reviewers provided suggested the need to review the structure and function of the Centre for Teaching and Learning (CTL) in order to ensure that the undergraduate experience reached its potential. Professor Halpern added that

REPORT NUMBER 9 OF THE UTSC ACADEMIC AFFAIRS COMMITTEE- January 8, 2015

Page 5 of 6

encouraging other portfolios to review their structure, function and processes was beneficial.

A member commented on the external reviewer's remarks regarding the calibre of the student population at UTSC due to their English competency skills, and Professor Halpern reported that he had corrected any factual errors regarding English competency skills that the reviewers made in their report. He also added that UTSC was committed to supporting those students who enrolled with language barriers by providing English language training and ongoing support.

A member asked what usually happened after an external review of an academic department was conducted. Professor Halpern explained that a typical external review would end with the Department Chair and himself meeting along with other members of the department to develop a plan for the department that would fit into the UTSC Academic Plan and the University's priorities.

In response to a question from a member, Professor David Zweig, Chair of the Department of Management, reported that future plans for the Department of Management would be addressed in the new Academic Plan.

CONSENT AGENDA

On motion duly made, seconded and carried,

YOUR COMMITTEE APPROVED,

THAT the consent agenda be adopted and the item requiring approval (item 5) be approved.

5. **Report of the Previous Meeting: Report 8 – Monday, November 10, 2014***(for approval)*
6. **Business Arising from the Report of the Previous Meeting**
7. **Date of the Next Meeting** –Tuesday, February 10, 2015, 4:00 p.m. - 6:00 p.m.

8. Other Business

No other business was raised.

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The meeting adjourned at 5:37 p.m.

Secretary

Chair