

Memorandum

To: Members of the Committee on Academic Policy and Programs
From: Carolyn Tuohy
Date: January 9, 2002

Item Identification

University of Toronto at Scarborough - Proposed Calendar Changes 2002-03

Sponsor

Carolyn Tuohy

Jurisdictional Information

The Committee has authority for approval of major program and curriculum changes

Highlights

Consistent with its academic planning in the context of enrolment expansion, UTSC proposes a number of new programs for approval, as follows:

1. Major and Specialist Programs:
 - Specialist program in Art and Culture, replacing the existing Specialist program in Visual and Performing Arts.
 - Major program in Human Geography
 - Major program in Physical and Human Geography
 - Major program in City Studies
 - Specialist program in Human Biology
 - Major program in Astrophysics and Physics
2. Major and Specialist (Co-operative) Programs:
 - Major and Specialist (Co-operative) programs in Humanities
 - Major (Co-operative) program in City Studies
 - Specialist (Co-operative) program in Cell and Molecular Biology
 - Specialist (Co-operative) program in Psychology and its Applications
3. Collaborative Programs with Centennial College:
 - Specialist (Collaborative) program in Journalism
 - Major (Collaborative) program in New Media

(The Memorandum of Understanding between the University of Toronto and Centennial College which is to underlie these two programs will be circulated to the Committee in advance of the meeting.)

4. New and re-structured program streams:
 - Within the Major Program in Environmental Science: New streams in Water Science and in Environmental Biology, and re-naming of existing Environmental Science program as Environmental Geosciences stream within Major program.

UTSC also proposes the discontinuation of the following programs:

1. Specialist program in Visual and Performing Arts (as noted above)
2. Minor program in English Literature and Culture

Action Sought

Approval of the following motions:

THAT the proposals for new, restructured and discontinued programs at the University of Toronto at Scarborough, as described in the University of Toronto at Scarborough submission for 2002-2003 to AP&P dated December 6, 2001 (except the Collaborative Programs with Centennial College) be approved, effective for the academic year 2002-03.

THAT the proposals for new Collaborative Programs with Centennial College, as described in the University of Toronto at Scarborough submission for 2002-2003 to AP&P dated December 6, 2001 be recommended to the Academic Board for approval, effective for the academic year 2002-03.



University of Toronto at Scarborough

Item 3

Council of the University of Toronto at Scarborough

1265 Military Trail, Scarborough
Ontario, Canada M1C 1A4

December 6, 2001

To: Professor Ruth Gallop
Chair, Academic Policy and Programs Committee of the Academic Board

From: Professor John Kennedy
Chair, University of Toronto at Scarborough Divisional Council

Re: **University of Toronto at Scarborough Programs for 2002/2003**

The attached proposals were approved by the Academic Committee at its meeting of November 20, 2001. On behalf of the University of Toronto at Scarborough Divisional Council, they were also ratified on December 6, 2001 by its Executive Committee. They are now presented to the Academic Policy and Programs Committee of the Academic Board for approval.

John M Kennedy

Atch.

cc: Professor C. Tuohy, Deputy Provost





2002/2003 New Programs and Program Deletions: Executive Summary

UTSC is seeking approval for new programs to be introduced in 2002/2003, along with the withdrawal of two existing programs.

Consistent with the plan that enrolment expansion will be achieved largely through an increase in the number of students engaged in co-operative studies, the new programs include new co-op opportunities in the Divisions of Humanities, Social Sciences, Life Sciences, and Physical Sciences. All co-op students will be subject to UTSC's general requirements for co-op, including maintaining a cumulative G.P.A. of 2.5, nearly a full grade point higher than the 1.6 required for good standing in regular degree programs. Two or three four-month work terms are required over and above the 20 academic credits for the Honours degree. Enrolment in all co-op programs is limited. Students may apply to second year from the fall of 2002. Direct entry from high school will be available from fall 2002 in the case of new Social Sciences and Physical Sciences programs, and from 2003 for other new programs, with one exception. Staffing of co-op offices is being increased in order to support the introduction of the new programs, and work has already begun on the development of the necessary employer base. In accordance with Ministry of Education and University policies, a co-op fee is levied to recover the costs of administering work placements.

With the prospect of a new teaching facility for Centennial College on University of Toronto lands at Scarborough, various Divisions of UTSC have been actively exploring the potential for new programming in collaboration with the College. Several areas in which Centennial has strong programming that complements our own are under active consideration, and, after over a year of discussion and planning, two proposals have come forward for programs to be introduced in 2002/2003. Both proposals involve collaboration with existing programs now offered at Centennial's Bell Centre near Danforth and Pape. Initially, UTSC students enrolled in the collaborative programs will take the coursework offered by Centennial at that location, spending two or three semesters at appropriate points in the program full-time there. However, the new Centennial facility on the UTSC campus, which currently is expected to open in January, 2004, will accommodate instruction for UTSC students in their own sections of these courses. At that time, it will be possible to consider whether academic advantages would be gained by a closer integration in which students might enrol concurrently in courses taught by the two institutions.

DIVISION OF HUMANITIES

A new **Co-operative Program in Humanities** is proposed. The program requires the completion of 3 F.C.E. core courses focussing on writing, research methods, critical thinking, and computer skills. Students will also complete the requirements of a Specialist Program offered by the Division, or two Major Programs (at least one of which must be in Humanities) within a four year Honours degree. Two work terms will be undertaken. The initial intake to second year in the fall of 2002 is not expected to exceed 20, and enrolment will be allowed to rise as the employer base is further developed.

The Division is also proposing a new **Specialist Program in Art and Culture**, with five streams: Art History, Drama, Music, Studio, and Multi-disciplinary. It is expected that the new program will be much more attractive to students than the existing Specialist Program in Visual and Performing Arts, because it permits sufficient concentration to fulfill requirements for graduate studies while exposing students to other areas and to the possibilities of interaction among them. With the introduction of the new program, it is proposed that the existing **Specialist Program in Visual and Performing Arts be withdrawn**. The small number of students now enrolled in the existing program will have no difficulty gaining access to courses needed to complete the requirements.

The Division is also proposing that the existing **Minor Program in English Literature and Culture** be **withdrawn**. English no longer intends to introduce a major and specialist program in Cultural Studies; if such programs are introduced in the future they would better be conceived as involving a number of Humanities disciplines. For the benefit of students now enrolled in the Minor Program, additional options are being introduced to ensure that they will not have problems completing it. Although the program will no longer be described in the Calendar, students will be contacted by the Supervisor and advised of these changes.

DIVISION OF SOCIAL SCIENCE

Budget reductions and uncertainty about future levels of staffing in the discipline occasioned the withdrawal of the Specialist Program in Geography in 1996, and of the Major Program in Geography in 1998. Happily, current staffing plans for Geography now enable the Division to propose a number of new Major programs including a new **Major Program in Human Geography**, and, in collaboration with the Division of Physical Sciences, a new **Major Program in Physical and Human Geography**. These two programs will enable students to focus their studies either on selected sub-disciplines within the field of human geography, or at the intersection of social change and the physical environment.

The Division is also proposing a new interdisciplinary **Major Program in City Studies**, along with a new **Major (Co-operative) Program in City Studies**. The objective is to equip students interested in various professional and career paths that may be city-related to think broadly about the relationships between their intended profession and the growth, sustainability, and livability of cities. The academic course requirements for the two programs are identical, focussing on theory, methods, and applications. The Major (Co-operative) Program entails two work terms, and must be combined with a second Major program from a specific list within a four-year Honours degree. Initial discussions with a key department of the City of Toronto have been very positive.

DIVISION OF LIFE SCIENCES

The Division is proposing a new **Specialist (Co-operative) Program in Cell and Molecular Biology**. The academic requirements for the program are identical to those of the existing Specialist Program in Cell and Molecular Biology. Two work terms are required. A canvass of potential employers indicates a strong level of interest in providing job postings. At present, there is no plan for direct entry from high school to this program.

The Division is also proposing a new **Specialist (Co-operative) Program in Psychology and Its Applications**. The academic requirements are identical to those of the existing Specialist Program in Psychology, which is a basic science program. However, depending on the stream in which they are enrolled, the student's choice of courses to complete certain of these requirements is constrained to ensure their relevance to the area of application in which the two work terms will be undertaken. Three streams are proposed at this time, in Cognition & Behaviour, Public Opinion & Behaviour, and Behaviour Disorders. Initial discussions with some potential employers have been positive.

The Division is also proposing a new **Specialist Program in Human Biology**, a rigorous science program for students with a strong interest in the health sciences. The 15-course program includes biology, psychology, and social science courses with a human and health focus and physical science courses required for successful performance on MCAT and other tests. The name, Human Biology, differentiates the program from the UTSC Health Studies program, and from other programs in biological sciences, viz., Cell & Molecular Biology, Integrative Biology, and (planned for 2004) Conservation Biology.

DIVISION OF PHYSICAL SCIENCES

The Division is proposing two new streams in its Major Program in Environmental Science, in **Water Science**, and in **Environmental Biology**. The currently listed Major in Environmental Science will also continue as a designated stream in the new Program under the name Environmental Geosciences. The new streams respond to issues of practical importance and social concern, and take advantage of research strengths in the faculty at UTSC. All three versions of the program will be available in regular study, and the new streams will also be listed along with the existing one under the umbrella of Physical Sciences Co-op, in which three work terms are required.

The Division is also proposing a new **Major Program in Astrophysics and Physics**. The former Major Program in Astronomy & Physics was withdrawn in 1996, and there has not been a Major Program in Physics since 1991. Currently, a Specialist Program in Physics & Its Applications is offered, with a concentration available in Astronomy & Physics, completion of which requires that students take most of their courses in the third and fourth year at the St. George campus. The current proposal is for a Major program that can be completed in its entirety at UTSC. It will be available in regular study, and will also come under the umbrella of Physical Sciences Co-op, in which three work terms are required. This new major program is likely to be of particular interest to those students in Physical Sciences Co-op or in the Early Teacher Project in Physical Sciences who wish to combine it with another major program.

COLLABORATIVE PROGRAMS WITH CENTENNIAL COLLEGE

Enrolment in both programs is limited to 25 students per year and entry to second year will be available as of fall 2002. Direct entry from high school will be available as of 2003. Applicants must satisfy the admission requirements of both UTSC and Centennial, but will be registered as UTSC students. Only students enrolled in the program will have access to the courses taught at Centennial.

While the Divisions of Social Science and Humanities have taken the lead in the development of these programs with Centennial, application to the programs is open to students who are also pursuing programs in other Divisions.

A **Specialist (Collaborative) Program in Journalism** is proposed, which is to be taken within the requirements of a four-year Honours degree. A unique feature of the program is that it permits students to pursue a major in any discipline (or two minors in any disciplines) in combination with an education in journalism. This will facilitate their entry to specialized areas of journalism (focussing for example on science, politics, arts, economics...). The total number of courses required to complete the program depends on the student's choice of major (or minor) program(s), but is at least 15 F.C.E. Of these, 6.5 will be Centennial courses in journalism approved for UTSC degree credit and listed in the UTSC Calendar with UTSC course designations. The program also requires 4 F.C.E. UTSC courses that provide respectively an international, Canadian, environmental, and "media and society" perspective, and the completion of a newly designed senior project half course to be taught collaboratively between Centennial and UTSC.

The Centennial courses that will be recognized for degree credit are selected from courses that now make up Centennial's two-year "fast-track" Journalism Diploma for students who already have a university degree. To receive a diploma from Centennial in addition to the U of T Honours Degree, students may complete in addition those components of Centennial's program that are not being recognized for degree credit (viz., a field placement and a short course on journalism career management, requiring one additional semester.)

Also proposed is a new **Major (Collaborative) Program in New Media**, which may be taken within a four-year Honours Degree when combined with a second Major program or a Specialist program in another field. The program may not be used alone to satisfy the program requirements of a Three-Year Degree. The program requires the completion of 8 F.C.E., including UTSC courses in computing, in writing, arts, and/or critical thinking, and in communications and culture. New senior project and directed research half-courses will provide the opportunity to apply media expertise in academic or other approved contexts, and will be taught collaboratively by UTSC and Centennial College. Of the total 8 F.C.E.'s, 4.5 F.C.E. taught by Centennial College will be recognized for degree credit and will carry UTSC designations in our Calendar.

The Centennial courses to be recognized for degree credit have been selected from those that make up the very successful three-semester certificate program in New Media currently offered by the College. While a university degree is not a requirement for enrolment in the certificate program, entry to the program is extremely competitive and many students who are accepted have prior university experience. To receive a diploma from Centennial in addition to the Honours degree, students may complete in addition those components of Centennial's program that are not to be recognized for degree credit (viz., a field placement and a professional practice course, requiring one additional semester.)

CO-OPERATIVE PROGRAM IN HUMANITIES

The Co-operative Program in Humanities allows students to combine their chosen academic program with work experience that draws upon the knowledge and skills acquired during their academic studies. Students are required to complete a Specialist Program offered by the Division of Humanities, or two Major Programs, at least one of which is offered by the Division, and to complete the requirements of an Honours (20-course) B.A. degree.

Program Requirements

The program requires eight four-month terms of study and two four-month work terms over a four-year period.

Students in the Co-operative Program in Humanities must complete *all* 3 F.C.E.'s of the following *core courses*. Where appropriate, courses in this list may also count towards the completion of a Specialist or Major Program.

[ENGA11Y Introduction to Literary Study: the Twentieth Century
ENGA12H Writing Workshop for ENGA11Y]

or

[LNGA10Y Current Approaches to the Academic Writing Process: A Course for Non-Native Speakers of English
LNGA19H Writing Practicum: A Course for Non-Native Speakers of English]

HISB01H History and Evidence
PHLB53H The Art of Thinking

VPAB03H Computers and the Arts I

or

CSCA02H The Why and How of Computing

In addition to the core courses, students must complete the requirements of a Specialist Program offered by the Division of Humanities, or of two Major Programs. A Major Program in Humanities may be combined with a second Humanities Major, or with a Major offered by any other academic division of UTSC.

The Division of Humanities currently offers the following programs of study:

Specialist Programs

English
History
Psycholinguistics
Visual and Performing Arts

Major Programs

Art History
Drama
English
French
History
Linguistics
Music and Culture
Philosophy
Studio
Women's Studies

Students in the Co-operative Program in Humanities are encouraged to use their elective courses to take courses outside their area(s) of concentration in order to broaden their understanding of contemporary social issues and their historical context, and to enhance their communication skills. Students should consult with the Supervisor of Studies of the Co-operative Program in Humanities as well as with their discipline program supervisor about their course selection.

SPECIALIST PROGRAM IN ART AND CULTURE (B.A.)

Supervisor: L. Carney (416-287-7171)

This program provides training in the visual and performing arts in a university setting, both for students who want a conceptual and historical knowledge of the arts and the interrelationships among them, and for those who wish primarily to develop their practical abilities. The program is a basis for careers or further study for future practitioners in the arts, for gallery and museum professionals, for academics, and for those who want a thorough knowledge of history, theory and practice in the arts. Students must apply for admission to the program, and may obtain details from the Supervisor.

The core courses give a basic knowledge of music, visual art and drama, as well as opportunities to develop writing and computing skills and to explore arts concepts and theories. Beyond this core, options range from concentration in one area to work across all the arts. All students in the program are expected to take advantage of the opportunities that exist on this campus to participate in arts events and clubs, as spectators and members and, where appropriate, as artists.

SPECIALIST PROGRAM IN ART AND CULTURE

The Specialist Program in Art and Culture requires the completion of thirteen and one-half full-course equivalents within a twenty-course degree. This program has five streams. Students may take a Specialist in Art and Culture (Art History), A Specialist in Art and Culture (Drama), A Specialist in Art and Culture (Music), A Specialist in Art and Culture (Studio) or a Specialist in Art and Culture (Multi-disciplinary). These programs are designed to provide in-depth study in the Visual and Performing Arts.

Specialist in Art and Culture (Multi-Disciplinary)

The specialist in Art and Culture (Multi-Disciplinary) requires the following courses:

1. a) Two Minor Programs from the Visual and Performing Arts

PLUS

One full-course equivalent in VPA at the A- or B-level from an area outside those of the chosen Minor Programs. Approval of the Supervisor is required.

or

b) Individual plan of study: a student may design a set of seven full-course equivalents, including two full-course equivalents at the C- or D-level, in order to pursue an individual approach to a Visual and Performing Arts subject. The student must confer with the Supervisor and get prior approval of the individual plan of study.

PLUS

Two full-course equivalents at the A- and/or B-level in VPA from areas outside those of the individual plan of study. Approval of the Supervisor is required.

2. Core courses required for all streams:

PHLB53H	The Art of Thinking
VPAB03H	Computers and the Arts
VPAB05H	Cultural Theory
VPHC47H	The Body: Theories and Representations, Part One
VPHC48H	The Body: Theories and Representations, Part Two
VPAC03H	Intermediate Seminar
VPAD05H	Senior Project

3. At least 1 F.C.E. from:

ENGB05Y	What is Culture
PHLB03H	Philosophy of Art
PHLB85H	Philosophy and Culture
VPAB06H	Cultural Pluralism I

Specialist in Art and Culture (Art History)

The Specialist in Art and Culture (Art History) requires the following courses:

1. The Major Program in Art History

PLUS

Two full-course equivalents at the A- and/or B-level in VPA from areas outside of the Art History Major

2. Core courses required for all streams:

PHLB53H	The Art of Thinking
VPAB03H	Computers and the Arts
VPAB05H	Cultural Theory
VPHC47H	The Body: Theories and Representations, Part One
VPHC48H	The Body: Theories and Representations, Part Two
VPAC03H	Intermediate Seminar
VPAD05H	Senior Project

3. At least 1 F.C.E. from:

ENGB05Y	What is Culture?
PHLB03H	Philosophy of Art

PHLB85H Philosophy and Culture
VPAB06H Cultural Pluralism I

Specialist in Art and Culture (Drama)

The Specialist in Art and Culture (Drama) requires the following courses:

1. The Major Program in Drama

PLUS

Two full-course equivalents at the A- and/or B-level in VPA from areas outside of the Drama Major

2. Core courses required for all streams:

PHLB53H The Art of Thinking
VPAB03H Computers and the Arts
VPAB05H Cultural Theory
VPHC47H The Body: Theories and Representations, Part One
VPHC48H The Body: Theories and Representations, Part Two
VAC03H Intermediate Seminar
VPAD05H Senior Project

3. At least 1 F.C.E. from:

ENGB05Y What is Culture?
PHLB03H Philosophy of Art
PHLB85H Philosophy and Culture
VPAB06H Cultural Pluralism I

Specialist in Art and Culture (Music)

The Specialist in Art and Culture (Music) requires the following courses:

1. The Major Program in Music

PLUS

Two full-course equivalents at the A- and/or B-level in VPA from areas outside of the Music Major

2. Core courses required for all streams:

PHLB53H The Art of Thinking
VPAB03H Computers and the Arts
VPAB05H Cultural Theory
VPHC47H The Body: Theories and Representations, Part One
VPHC48H The Body: Theories and Representations, Part Two
VPAC03H Intermediate Seminar
VPAD05H Senior Project

3. At least 1 F.C.E. from:

ENGB05Y What is Culture?
PHLB03H Philosophy of Art
PHLB85H Philosophy and Culture
VPAB06H Cultural Pluralism I

Specialist in Art and Culture (Studio)

The Specialist in Art and Culture (Studio) requires the following courses:

1. The Major Program in Studio

PLUS

Two full-course equivalents at the A- and/or B-level in VPA from areas outside of the Studio Major.

2. Core courses required for all streams:

PHLB53H The Art of Thinking
VPAB03H Computers and the Arts
VPAB05H Cultural Theory
VPHC47H The Body: Theories and Representations, Part One
VPHC48H The Body: Theories and Representations, Part Two
VPAC03H Intermediate Seminar
VPAD05H Senior Project

3. At least 1 F.C.E. from:

ENGB05Y What is Culture?
PHLB03H Philosophy of Art
PHLB85H Philosophy and Culture
VPAB06H Cultural Pluralism I

MAJOR PROGRAM IN HUMAN GEOGRAPHY

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.

The Major Program in Human Geography requires a total of 7 F.C.E. This program includes requirements in the areas of social science theory, methods, applications, and an advanced seminar.

Among these 7 F.C.E., the student must include:

1. Introduction (1 F.C.E.)
 - GGRA01Y Global Processes and Local Environments
2. Theory and concepts in Human Geography (at least 2 F.C.E. from among the following):
 - GGRB05H Urban Geography
 - GGRB06H Introduction to Planning in Canada
 - GGRB10H Real Estate and the City
 - GGRB13H Social Geography
 - GGRB20H Environmental Conservation and Sustainable Development
 - GGRB27H Location and Spatial Development
3. Methods (1 F.C.E.)
 - GGRA30H GIS and Empirical Reasoning
 - STAB22H Statistics (or equivalent)
4. Applications (at least 2 F.C.E. from among the following):
 - GGRC04H Urban Residential Geography
 - GGRC07H Countryside Conservation
 - GGRC13H Urban Political Geography
 - GGRC18H Urban Transportation Policy Analysis
 - GGRC29H Agriculture, Environment, and Development
 - GGRC33H Greater Toronto Area
 - GGRC41H Current Topics in Human Geography
 - IDSC09H Issues in Rural Development
5. Core course (0.5 F.C.E.)
 - GGRD01H Human Geography Case Study
6. At least one additional 0.5 F.C.E. with a GGR prefix

MAJOR PROGRAM IN PHYSICAL AND HUMAN GEOGRAPHY

This is an interdivisional program leading to a B.A. degree in which students combine courses in human geography (GGR prefix) with courses in physical geography (EES prefix). The Major Program in Physical and Human Geography requires the completion of a total of 8 F.C.E., of which 4 F.C.E. are to be EES courses, and 4 F.C.E. are to be GGR courses. Among these 8.0 F.C.E., the student must include:

1. EESA01H, EESA06H and GGRA01Y
2. At least 1.5 F.C.E. from among (EESB01H, EESB02H, EESB03H, EESB04H and EESB05H)
3. At least 1.5 F.C.E. from among GGRB05H, GGRB06H, GGRB10H, GGRB13H, GGRB20H and GGRB27H
4. At least 1.0 F.C.E. at the C- or D-level from among FFS courses
5. At least 1.0 F.C.E. at the C- or D-level from among GGR courses
6. At least one additional 0.5 F.C.E. with a GGR prefix
7. At least one additional 0.5 F.C.E. with an EES prefix

EES courses presume a background in physical sciences and mathematics. It is recommended that freshman students take EESA01H, EESA06, GGRA01Y, and at least one F.C.E. from among BGYA01Y, CHMA01Y, PHYA10H or either MATA26Y or MATA29Y. "Students who combine the Major Program in Physical and Human Geography with another Major Program in Science (e.g. Environmental Science) are eligible for the Early Teacher Project."

MAJOR PROGRAM IN CITY STUDIES

A Major Program for students interested in professional and career paths that may be city-related: e.g., architecture, city planning, real estate brokerage, real estate development, housing, law, property real estate appraisal, property management, social work, social and city public policy, city environmental management, and city transportation policy. The Program equips students with the background knowledge and skills needed to think broadly about the relationships between their intended professions and the growth, sustainability, and livability of cities.

Students may use certification in a Major Program in City studies as a requirement towards a 3-year or Honors B.A. The Major Program in City Studies is multidisciplinary: it is designed to give students the opportunity to see how they might apply ideas about cities from the social sciences and kindred disciplines in their field of professional interest.

The Major Program in City Studies requires a total of 7 F.C.E., with requirements in the areas of social science theory, methods, applications, and an advanced seminar.

1. Introduction to Social Science Thought (at least 2 F.C.E. from among the following over and above the requirements of any other program to which the student seeks certification):

- ANTA01Y Introduction to Anthropology
- HLTA01H Plagues and Peoples
- POLA51H Critical Issues of Canadian Democracy
- Plus another half-course in POL at the A-level (POLB50Y, Canadian Politics, may be substituted)
- SOCA01Y Introduction to Sociology
- GGRA01Y Global Processes and Local Environments
- ECMA03Y Introduction to Economics
- (ECMA02Y may be substituted)

2. Fundamentals of City Studies (at least 2 F.C.E. from among the following):

- ANTB56H Health and the Urban Environment
- [EESA05H Environmental Hazards
- or
- EESA06H] Planet Earth
- GGRB05H Urban Geography
- GGRB06H Introduction to Planning
- GGRB10H Real Estate and the City
- GGRB13H Social Geography
- SOCB05Y Urban Sociology

3. Methods (at least 1 F.C.E. from among the following):

- SOCB01Y Methods in Social Research
- [SOCB06H Social Statistics
- or
- STAB22H] Statistics
- [GGRA30H GIS and Empirical Reasoning
- or
- EESC03H] Remote Sensing and Geographic Information Systems

4. Applications (at least 1.5 F.C.E. from among the following):

- ANTC40Y Anthropological Demography
- EESC21H Urban Environmental Problems of the Greater Toronto Area
- ENGD89H The City in Nineteenth-Century Literature
- GGRC04H Urban Residential Geography
- GGRC13H Urban Political Geography
- GGRC33H Greater Toronto Area
- GGRC18H Urban Transportation Policy Analysis
- HISC39Y Urban Lives and Cultures: The American City, 1890-1990
- POLC53Y Politics of the Environment
- POLC65Y Canadian Public Policy and Administration
- SOCC03H Collective Behaviour
- SOCC04H Social Movements
- SOCC26H Sociology of Urban Growth

5. Core course (0.5 F.C.E.)

- CITD01H City Issues and Strategies

A culminating course wherein students get to showcase the application of their acquired skills, and share their professional and disciplinary interests in a common case study.

Students are reminded that many of the courses above have prerequisites and that it is the responsibility of the student to ensure that they satisfy these requirements.

MAJOR (CO-OPERATIVE) PROGRAM IN CITY STUDIES

Graduates will receive an Honours B.A. degree wherein they combine the Major (Co-operative) Program in City Studies with one of the following:

- Major Program in Anthropology
- Major Program in Economics for Management
- Major Program in Environmental Science
- Major Program in History
- Major Program in Human Geography
- Major Program in Political Science
- Major Program in Sociology
- Major Program in Studio
- Major Program in Women's Studies

The Program is intended to complement their chosen academic discipline and to give students the opportunity to see how they might apply ideas from that discipline in their field of professional interest. The Major (Co-operative) Program in City Studies combines academic studies in various disciplines with work placements in private enterprise, the public sector, or non-governmental organizations. It includes all of the requirements of the Major Program listed above, viz., 7 F.C.E. as specified.

II.

SPECIALIST (CO-OPERATIVE) PROGRAM IN CELL AND MOLECULAR BIOLOGY

Supervisor: C. Hasenkampf

(Room S535, 416-287-7655)

hasenkampf@utsc.utoronto.ca

The Program provides the student with a broad education in biochemistry, cell biology, genetics, microbiology and molecular biology through lecture, lecture/laboratory, and intensive laboratory courses, and couples this theoretical and practical training with work experience in government, health care, or in public or private industries.

Admission to the Program

Enrolment in the program is limited. Admission is granted on the basis of applicants' academic performance. UTSC students who have successfully completed at least 5.0 F.C.E. and applicants transferring into second year from elsewhere in the University of Toronto or from another institution may apply for admission to the program by requesting an application from the Program Co-ordinator (T.B.A.). To be considered for admission, applicants must have a G.P.A. of at least 2.75 and have successfully completed BGYA01Y, CHMA01Y, MATA29Y (or MATA26Y), and PHYA10H (or PHYA20H) or their equivalents.

Program Requirements

The program requires eight, four-month terms of study and two four-month work terms. The program requires the completion of 14 F.C.E. as specified for the Specialist Program in Cell and Molecular Biology (see below).

1. Four F.C.E. consisting of the Biology core curriculum components: BGYA01Y, BGYR10Y, BGYB30H, BGYB31H, (BGYB30Y), BGYB50H, BGYB51H, (BGYB50Y)
2. Two F.C.E. in laboratory courses BGYB12H, BGYC23H, BGYD21H, and BGYD22H
3. Two and one-half F.C.E. in essential concepts courses in Biology BGYC12H, BGYC13H, BGYC15H, BGYC17H, and BGYD23H
4. One F.C.E. from among the following courses: BGYC18H, BGYC19H, BGYC21H, BGYC22H, BGYC29H, NROC34H, NROC35H, BGYC37H, BGYD10H, BGYD18H or BGYD24H. (Please note that, as additional faculty are hired in the areas of Cell and Molecular Biology, Genomics/Proteomics course work will be substituted for the elective biology coursework of Category #4).
5. Two F.C.E. in Chemistry: CHMA01Y and CHMB44Y
6. One-half F.C.E. in Physics: PHYA10H (PHYA20H)
7. One F.C.E. in Mathematics: MATA29Y or MATA26Y
8. One F.C.E. from the courses listed by the Division of Humanities, Social Sciences, or Management

SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY AND ITS APPLICATIONS

Supervisor: D. Bors (Office S638)

bors@utsc.utoronto.ca

The Program combines academic studies in the field of psychology with practical work experience in settings in which scientific knowledge from various sub-fields in the discipline is applied. Students undertake two work terms in addition to completing all of the academic requirements for the Specialist Program in Psychology and the four-year Honours B.Sc.

The work experience provided by the program enables students to explore career opportunities that may be pursued following the bachelor's degree; however, completion of the program does not 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 applied research.

Program Requirements

The program requires eight four-month terms of study and two four-month work terms over a four year period. The program requires the completion of 12.5 full-course equivalents as specified for the Specialist Program in Psychology, but with constraints on those courses that may be used to satisfy certain of these requirements, as given below for each of the three streams. Enrolment in each of the streams is limited.

Cognition and Behaviour Stream

This stream provides a theoretical and methodological foundation for the study of cognitive processes—perception, memory, language, thinking—and their bearing on behaviour. There are many applications of this area of psychology, such as: The design of machines, control panels, and complex systems in the home and the workplace; education, including special education for both children and adults; the development of devices and therapeutic learning approaches to assist persons with disabilities; artificial intelligence. Students may apply for work term employment in settings such as institutions and organizations providing support to persons with disabilities, educational organizations, research and development departments in industry, and government agencies.

A. 10.5 full-course equivalents in Psychology, as follows:

1. PSYA01Y Introduction to Psychology
(1 full-course equivalent)
2. Statistical Methods (1 full-course equivalent)
 - (a) PSYB07H Data Analysis in Psychology
and
 - (b) PSYC08H Advanced Data Analysis in Psychology
3. Laboratory Methods (1 full-course equivalent)
 - (a) PSYB01H Psychological Research Laboratory
and
 - (b) one half-course (.5 full-course equivalent) from among the following:
 PSYC11H Social Psychology Laboratory
 PSYC26H Developmental Psychology Laboratory
 PSYC34H Psychometric Methods Laboratory
 (PSYC42H) (Learning Laboratory)
 PSYC58H Experimental Psychology Microcomputer Laboratory
 NROC63H Neuroscience Laboratory or (PSYC63Y*) (Neuroscience Laboratory)

(*NOTE: Students who have taken PSYC63Y also receive 0.5 course credit towards satisfaction of Requirement 6b or 7.)
4. PSYC02H Scientific Communication in Psychology (.5 full-course equivalent)
5. History and Theoretical Psychology (.5 full-course equivalent)
 - (a) PSYC82H Theoretical Psychology
or
 - (b) PSYC85H History of Psychology
6. Courses at the B-level and/or C-level (3 full-course equivalents)
 Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:
 - (a) Social, Developmental and Personality courses (listed in the 10-, 20-, and 30-series); students in the Cognition and Behaviour stream must include PSYB20H, Introduction to Development Psychology, among the courses selected to meet this requirement;
 - (b) Learning and Physiology courses (listed in the 40- and 60-series); students in the Cognition and Behaviour stream must include PSYB65H, Brain and Behaviour, among the courses selected to meet this requirement;

13.

(c) Perception, Language and Cognition courses (listed in the 50-series); students in the Cognition and Behaviour stream must take the following courses to complete this requirement: PSYB50H, Sensation and Perception* and PSYB57H, Memory and Cognition*.

7. Courses at the D-level (one full-course equivalent), chosen from:

- PSYD50H Current Topics in Memory and Cognition
- PSYD52H Fundamental Issues in Cognitive Science
- PSYD58H The Scientific Study of Conscious and Unconscious Influences
- PSYD59H Computational Models of Memory
- PLID55H Disorders of Speech and Language

8. Additional courses in Psychology (2.5 full-course equivalents)

Students in the Cognition and Behaviour stream must include:

(a) PSYD95H Psychology and Its Applications: Advanced Seminar
and

(b) at least one full-course equivalent from among the following courses**:

- PSYB51H Perception and Cognition
- PSYC33H Neuro-psychological Rehabilitation
- PSYC53H Psychology and the Law
- PSYC54H Cognition and Representation
- PLIC24H Developmental Psycholinguistics
- PLIC55H Psycholinguistics

The choice of the remaining one full-course equivalent is unconstrained.

B. Other Disciplines (2 full-course equivalents).

Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology. Students in the Cognition and Behaviour stream must select at least two full-course equivalents from among the following courses:

- LINB21H Language and Society
- LINB22H Sociolinguistics
- LINB25H Second Language Learning
- LINC28H Language and Gender
- PHLB80H Philosophy of Language
- PHLB81H Theories of Mind
- PHLB86H Foundations of Cognitive Science
- PHLC86H Seminar in Philosophy: Minds and Machines

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

** This requirement must be successfully completed before the second work term.

Public Opinion and Behaviour Stream

This stream provides a theoretical and methodological foundation for the study of attitudes and of behaviour patterns, with an emphasis on understanding diversity. The stream is relevant to a multitude of issues such as: Health related attitudes and behaviours; political and consumer attitudes and behaviour; attitudes about cross cultural issues, including the study of prejudice and discrimination; behaviour patterns and their diversity across cultures, including the study of social and sexual mores and of acculturation experiences. Students may apply for work term employment in survey research organizations and in government departments and other agencies interested in such issues.

A. 10.5 full-course equivalents in Psychology, as follows:

1. PSYA01Y Introduction to Psychology
(1 full-course equivalent)
2. Statistical Methods (1 full-course equivalent)
(a) PSYB07H Data Analysis in Psychology
and
(b) PSYC08H Advanced Data Analysis in Psychology
3. Laboratory Methods (1 full-course equivalent)
(a) PSYB01H Psychological Research Laboratory
(b) One half-course (.5 full-course equivalent) from *
PSYC11H Social Psychology Laboratory
or
PSYC34H Psychometric Methods Laboratory
4. PSYC02H Scientific Communication in Psychology (.5 full-course equivalent)
5. History and Theoretical Psychology (.5 full-course equivalent)
(a) PSYC82H Theoretical Psychology
or
(b) PSYC85H History of Psychology
6. Courses at the B-level and/or C-level (3 full-course equivalents)

Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:

- (a) Social, Developmental and Personality courses (listed in the 10-, 20-, and 30-series); students in the Public Opinion and Behaviour stream must take the following courses to meet this requirement:

PSYB10H Introduction to Social Psychology

and

PSYB20H Introduction to Development Psychology

- (b) Learning and Physiology courses (listed in the 40- and 60-series)

- (c) Perception, Language and Cognition courses (listed in the 50-series); students in the Public Opinion and Behaviour stream must include PSYB57H, Memory and Cognition, in the courses used to satisfy this requirement.

7. Courses at the D-level (one full-course equivalent), chosen from

PSYD15H Current Topics in Social Psychology

PSYD18H Psychology of Gender

PSYD22H Socialization Processes

PSYD34H Human Intelligence

8. Additional courses in Psychology (2.5 full-course equivalents)

Students in the Public Opinion and Behaviour stream must include:

- (a) PSYD95H Psychology and Its Applications: Advanced Seminar

and

- (b) PSYC12H Advanced Social Psychology*

and

- (c) PSYC14H Cross-cultural Social Psychology

and

- (d) PSYC21H Advanced Developmental Psychology

The choice of the remaining .5 full-course equivalents is unconstrained.

B. Other Disciplines (2 full-course equivalents)

Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology. Students in the Public Opinion and Behaviour stream must choose at least two full-course equivalents from among the following courses:

POLA51H Critical Issues of Canadian Democracy

POLA81H Leaving Home: Politics and Emigration

POLC75Y Political Analysis

SOCB20Y Ethnic and Race Relations

SOCB34Y Sociology of Mass Media and Communication

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

Behavioural Disorders Stream

This stream provides a theoretical and methodological foundation for the study of behaviour disorders and their treatment. Students will have the opportunity to apply for work term employment in clinical settings such as may be found in hospitals and extended care facilities.

A. 10.5 full-course equivalents in Psychology as follows:

1. PSYA01Y Introduction to Psychology

(1 full-course equivalent)

2. Statistical Methods (1 full-course equivalent)

(a) PSYB07H Data Analysis in Psychology

and

(b) PSYC08H Advanced Data Analysis in Psychology

3. Laboratory Methods (1 full-course equivalent)

(a) PSYB01H Psychological Research Laboratory

and

(b) PSYC32H Clinical Neuro-psychology Laboratory*

4. PSYC02H Scientific Communication in Psychology (.5 full-course equivalent)

5. History and Theoretical Psychology (.5 full-course equivalent)

(a) PSYC82H Theoretical Psychology

or

(b) PSYC85H History of Psychology.

6. Courses at the B-level and/or C-level (3 full-course equivalents)

Students are required to take one full-course equivalent at the B-level and/or C-level from each of the three content groups listed below:

- (a) Social, Development and Personality courses (listed in the 10-, 20-, and 30-series); students in the Behavioural Disorders stream must take the following courses to meet this requirement:

PSYB20H Introduction to Developmental Psychology

and

PSYB32H Introduction to Abnormal Psychology*

15.

(b) Learning and Physiology courses (listed in the 40- and 60-series); students in the Behavioural Disorders stream must take the following courses to meet this requirement:

PSYB45H Behaviour Modification: Origins and Applications

and

PSYB65H Human Brain and Behaviour*

(c) Perception, Language and Cognition courses listed in the 50-series; students in the Behavioural Disorders stream must take the following courses to meet this requirement

PSYB50H Sensation and Perception

and

PSYB57H Memory and Cognition

7. Courses at the D-level (one full-course equivalent).

Students in the Behavioural Disorders stream must include PSYD33H, Current Topics in Abnormal Psychology. The choice of the other .5 full-course equivalent is unconstrained.

8. Additional courses in Psychology (2.5 full-course equivalents).

Students in the Behavioural Disorders stream must include:

(a) PSYD95H Psychology and Its Applications: Advanced Seminar

and

(b) PSYC33H Neuro-psychological Rehabilitation**

and

(c) PSYC62H Drugs and the Brain

and

(d) .5 full-course equivalent from among the following courses:

PSYC21H Advanced Development Psychology

PSYC26H Developmental Psychology Laboratory

The choice of the remaining .5 full-course equivalent is unconstrained.

B. Other Disciplines (2 full-course equivalents)

Students must select at least two full-course equivalents at the B-level or higher in a discipline or disciplines other than Psychology. Students in the Behavioural Disorders stream must take

(a) NROB60H Neuroscience I: Cell Anatomy and Physiology

and

(b) NROC61H Neuroscience II: Learning and Motivation

(c) The choice of the remaining 1.0 full-course equivalent is unconstrained.

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

** This course must be successfully completed before the second work term.

16.

SPECIALIST PROGRAM HUMAN BIOLOGY

Supervisor: C. Pickett (416-287-7658)

pickett@utsc.utoronto.ca

This Program consists of 15 required F.C.E. Students are encouraged to take all B-level Program requirements listed in numbers 1 and 2 below in the second year; these requirements provide the most flexibility in taking C- and D-level courses. The specific Program requirements are:

1. 4.5 F.C.E. consisting of the core curriculum components in biology and a specified B-level Human Biology course: BGYA01Y, BGYB10Y, BGYB30H, BGYB31H, (BGYB30Y), BGYB33H, BGYB50H, BGYB51H, (BGYB50Y);
2. One half F.C.E. from among the three core laboratory courses: BGYB12H, BGYB32H, or BGYB52H;
3. 2.5 F.C.E. in essential concept courses: BGYC12H or BGYC13H, BGYC15H, BGYC17H, BGYC21H, BGYC33H;
4. One F.C.E. in PSYA01Y;
5. One-half F.C.E. in NROB60H;
6. Two F.C.E. in CHMA01Y and CHMB44Y;
7. One F.C.E. in PHYA10H (PHYA20H) and PHYA21H;
8. One F.C.E. in MATA26Y or MATA29Y;
9. One F.C.E. from the additional list of Psychology and Neuroscience courses: NROC34H, PSYB07H, PSYB10H, PSYB20H, PSYB32H, PSYB45H, PSYB57H, PSYB65H;
10. One F.C.E. in Health Studies: HLTA01H, BGYC50H, IDSB04H, ANTB56H, ANTC61H, ANTC62H, ANTD01H, ANTD23H, POLC55H.

MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE

The addition of two new streams.

Water Science Stream

Advisor: W. Gough (416-287-7245)

Total Requirements: 8.0 F.C.E.

Year 1:

FFSA01H Introduction to Environmental Science
EESA06H Planet Earth
BGYA01Y Introductory Biology
EESA07H Water

Year 2:

EESB02H Principles of Geomorphology
EESB03H Principles of Climatology
EESB04H Principles of Hydrology
BGYB50H Ecology

Year 3:

EESB01H Sedimentology and Stratigraphy
EESC03H Remote Sensing and GIS
EESC07H Groundwater
EESC13H Environmental Impact Assessment and Auditing
[EESC18H The Great Lakes
or
EESC19H Marine Systems]

1.0 F.C.E. from the following:

BGYC53H Marine Biology
BGYC56H Limnology
BGYC65H Environmental Toxicology
BGYD51H River Ecology
CLAB05Y The Mediterranean World
EESC20H Soil Erosion Control
EESD02H Contaminant Hydro-geology
EESD11H Process Hydrology

Environmental Biology Stream

Advisor: R. Fulthorpe (416-287-7223)

Total Requirements: 7.0 F.C.E.

Year 1:

EESA01H Introduction to Environmental Science
EESA06H Planet Earth
BGYA01Y Introductory Biology

Year 2:

BGYB50H Ecology
BGYB51H Evolutionary Biology
BGYB52H Ecology and Evolutionary Biology Lab
EESB03H Principles of Climatology
EESB04H Principles of Hydrology
EESB05H Principles of Soil Science

Year 3:

EESC04H Bio-geography and Bio-diversity
STAB22H Statistics

1.0 F.C.E. from the following:

BGYC57H Evolutionary and Applied Biology of Insects
BGYC63H Conservation Biology
BGYC65H Environmental Toxicology
CHMB55H Environmental Chemistry
EESB09H Biotechnology
EESC30H Microbial Bio-geochemistry

MAJOR PROGRAM IN ASTROPHYSICS AND PHYSICS

Supervisors: C.C. Dyer (416-287-7206 and M.J.G. Lee (416-287-7246)

The Major Program in Astrophysics and Physics combines introductory and more advanced work in the two areas along with essential mathematics courses. It is especially appropriate for students in the Physical Sciences Co-op Program or in the Early Teach Project in Physical Sciences, who wish to pursue a Major Program strongly oriented towards physical phenomena in combination with another Major as part of degree and program requirements.

8.0 F.C.E. are required

First Year:

ASTA03Y	Introduction to Astronomy
MATA26Y	Calculus
PHYA10H	Dynamics of Classical Systems
PHYA21H	Principles of Modern Physics

Second Year and Later Years:

ASTB21H	Solar System and Stellar Astrophysics
MATA23H	Linear Algebra I
MATB41H	Techniques of the Calculus of Several Variables I
MATB42H	Techniques of the Calculus of Several Variables II
PHYB21H	Electricity and Magnetism
PSCB57H	Introduction to Scientific Computing
[PI IYD23] I	Physics Laboratory
or	
PSCB01H	The Instrumentation of Science]

And 1.5 F.C.E. from:

ASTC22H	Galactic and Extragalactic Astrophysics
PHYB23H	Physics Laboratory
PHYB24H	Introduction to Quantum Physics
PHYC20H	Vibrations and Waves
PSCB01H	The Instrumentation of Science
PSCC01H	Physical Principles of Modern Technology

JOURNALISM (B.A.)

This program may be taken in fulfilment of the requirements of a four-year (20-course) Honours B.A. Degree. In addition to completing the requirements for the degree, students have the option of qualifying for a diploma from Centennial College by undertaking one additional semester in a field placement and completing a short non-credit course on journalism career management at Centennial.

Program Admission Requirements

Limited enrolment. Applicants must fill out a collaborative program application form. Applicants must also pass Centennial's screening process (satisfactory completion of a series of writing exercises, attendance at an information session, and an interview). Applicants may arrange to take the test during the first year of their studies at the University of Toronto at Scarborough.

Program Requirements

(a) [International Perspective]

1 F.C.E. from:

ENGB17H	Contemporary Literature from the Caribbean
ENGB18H	Contemporary Literature from Africa
ENGB19H	Contemporary Literature from South Asia
FREB22H	The Francophone World
FREB83H	Cultural Identities and Stereotypes in the French-Speaking World
HISA03Y	The Twentieth Century World
IDSB01H	International Development Studies: Political Economy
IDSB02H	International Development Studies: Development and Environment
IDSB04H	International Health Policy Analysis
POLB80Y	International Relations

(b) [Canadian Perspective]

1 F.C.E. from:

ECMA03Y	Introduction to Economics
ENGB07Y	Canadian Literature
ENGB25H	Canadian Short Story
FREB22H	Society and Culture of French Canada
FREB36H	Literature of French Canada I: To 1960
FREB37H	Literature of French Canada II: Since 1960
HISB04Y	Canadian History
HISC45H	Immigrants and Race Relations in Canadian History
POLA51H	Critical Issues of Canadian Democracy
POLA81H	Leaving Home: Politics and Emigration
POLB50Y	Canadian Politics

(c) [Environmental Perspective]

1 F.C.E. from:

BGYA01Y	Introductory Biology
EESA01H	Introduction to Environmental Science
EESA05H	Environmental Hazards
EESA06H	Introduction to Planet Earth
EESA07H	Water
GGRA01Y	Global Processes and Environments

(d) [Media and Society Perspective]

1 F.C.E. from:

ENGB05Y	What is Culture?
ENGC55Y	Literature and Media
IDSC09H	Developmental Studies and the Media
INTB01Y	International Studies and International Communications
PHLB05H	Social Issues
PHLB06H	Business Ethics
POLB72Y	Political and Social Theory of Contemporary Society
SOCB34Y	Sociology of Mass Media and Communications
VPAB05H	Introduction to Contemporary Cultural Theory
VPAB06H	Cultural Pluralism and the Arts
WSTB13H	Women and the Media

(e) Courses that satisfy the requirements of one Major or two Minor Programs, which may include courses used to satisfy requirements (a) through (d) above.

(f) JOUD01H Journalism Senior Project

(g) At least 2 F.C.E. at the C- or D-level, which may include any C- or D-level courses used to satisfy requirements (b) through (e) above.

(h) *Journalism Group 1* – students will be eligible to enrol in these courses after successfully completing at least 10 F.C.E. at University of Toronto at Scarborough, including at least three of requirements (a) through (d) above. This group of courses should be taken concurrently.

JOUA06H Journalism Law & Ethics
 JOUB11H News Reporting
 JOUB14H Page Design
 JOUB18H Imaging: Journalism

(i) *Journalism Group 2* – students will be eligible to enrol in these courses after successfully completing Group 1 above.

JOUB03H Magazine Journalism
 JOUB05H Advanced Interviewing Techniques
 JOUB09H Journalism Copy Editing
 JOUB10H Newspaper Laboratory I
 JOUB17H News for the Electronic Media I

(j) *Journalism Group 3* – students will be eligible to enrol in these courses after successfully completing Group 2.

JOUC13H Boat Reporting
 JOUC16Y Newspaper Laboratory II
 JOUC17H News for the Electronic Media II

MAJOR (COLLABORATIVE) PROGRAM IN NEW MEDIA (B.A.)

The program may be taken in partial fulfillment of the requirements of a four-year (20-course) Honours B.A. Degree, when taken with a major (or specialist) program in another field.

In addition to completing the requirements for the degree, students have the option of qualifying for a certificate from Centennial College by undertaking one additional semester, which includes a field placement and a professional practice course.

Program Admission Requirements

Limited enrolment. Students will be considered for admission after completing 4 full-course equivalents at the University of Toronto at Scarborough. Students must request the program in ROSI by the May or August deadline and submit an application form and portfolio to the program supervisor by the same deadline. Following receipt of the applications, arrangements will be made for the student to take Centennial's design test. Students who do not have a portfolio when beginning university studies should include VPAA62H in their first year program; alternatively, they may wish to enrol in a suitable non-credit course at Centennial College while in the process of preparing a portfolio for evaluation. Students may be required to attend an interview before the decision is made.

Program Requirements

Students must complete 8 full-course equivalents, which must include:

1. (a) 0.5 F.C.E. from among:
 - CSCA06H Introduction to Computing Programming
 - CSCA58H Introduction to Computer Science
 - VPAB03H Computers and the Arts I
- (b) 2.0 F.C.E. from among the following courses, at least 1 F.C.E. from each group (some courses have prerequisites and/or enrolment restrictions—students should consult the course descriptions and plan accordingly)
 - i)
 - ENGA11Y Introduction to Literary Study: The Twentieth Century
 - ENGA12H Writing Workshop for ENGA11Y
 - PHLB03H Philosophy of Art
 - PHLB53H The Art of Thinking
 - VPAA62H Foundation Studies in Studio
 - VPAA61H But Why Is It Art?
 - VPAB73H Computers and the Arts II
 - VPAB76H Electronic Media
 - ii)
 - ECMC20H Economics of the Media
 - ENGB05Y What is Culture?
 - ENGC55Y Literature and Media
 - IDSC09H Media and Development
 - INTB01Y International Studies and International Communications
 - PHLB05H Social Issues
 - SOCB34Y Sociology of Mass Media and Communications
 - VPAB05H Introduction to Contemporary Cultural Theory
 - WSTB13H Women's Studies and the Media
- (c) *News Media Group 1* – students will be eligible to enrol in these courses after successfully completing at least 12 F.C.E. at University of Toronto at Scarborough, which must include requirements (a) and (b) in 1 above.
 - NMEA01H Digital Fundamentals
 - NMEA02H Introduction to New Media Communications
 - NMEA03H The Language of Design
 - NMEA04H Interface Design, Navigation and Interaction I
- (d) *New Media Group 2* – students will be eligible to enrol in these courses after successfully completing all courses in Group 1 above.
 - NMEB05H Interface Design, Navigation and Interaction II
 - NMEB06H Project Development and Presentation
 - NMEB08H Application Software for Interactive Media
 - NMEB09H Sound Design
 - NMEB10H Design for New Media
- (e) NMED01H New Media Senior Project
- (f) NMED02H New Media Directed Research (or one other half course from lists (a) and (b) above)